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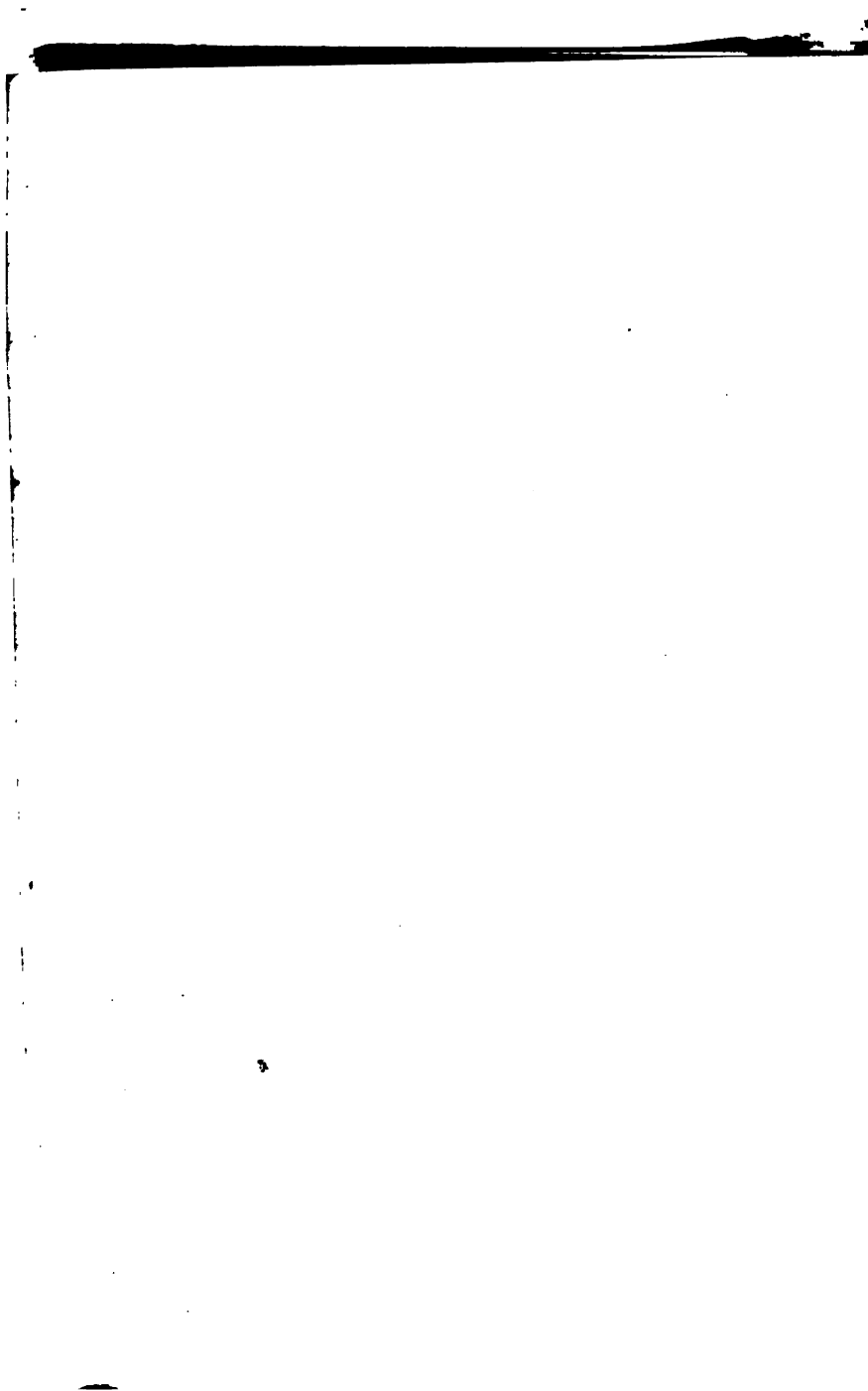
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CATALOGUE
OF
DARTMOUTH COLLEGE

TOGETHER WITH THE

116883

AMOS TUCK SCHOOL OF ADMINISTRATION
AND FINANCE

THE THAYER SCHOOL OF CIVIL ENGINEERING
AND
THE MEDICAL SCHOOL

FOR THE YEAR

1902-1903

HANOVER, N. H.
PRINTED FOR THE COLLEGE
1902

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COLLEGE CALENDAR

DARTMOUTH COLLEGE

1902

September 11-15 . . . Examinations for Admission — Thursday to Monday.

September 18 . . . Academic year began — Thursday morning.

October 9 Athletic Field-day; a holiday.

November 27 Thanksgiving Day; a holiday.

Recess from December 23, 10 A.M., to January 6, inclusive.

1903

January 23 to Feb. 4 . . . First Semester Examinations.

March 11 The Smith and Rollins Prize Speaking — 8 P.M.

Recess from April 1, 10 A.M., to April 15, inclusive.

June 10-20 Second Semester Examinations.

June 17-20 Examinations for Admission.

June 20 Speaking for the Barge medal and for the "Class of 1866" prizes — Saturday, 8 P.M.

June 21 Baccalaureate Discourse — Sunday, 10.30 A.M.
Address before the Y. M. C. A. — Sunday, 8 P.M.

June 22 Class Day Exercises — Monday, 2.30 P.M.
Promenade Concert in College Yard — 10 P.M.

June 23 Annual Meeting of the Phi Beta Kappa Society — Tuesday, 8.30 A.M.
Address — Alumni Association — 10.30 A.M.
Annual Meeting of the Alumni Association — 2.30 P.M.

Greek Letter Society Reunions — 5 P.M.

June 24 COMMENCEMENT — Last Wednesday in June.

Summer Vacation of Thirteen Weeks.

1903

September 17-21 . . . Examinations for Admission — Thursday to Monday.

September 22, 23 . . . Registration — Tuesday, Wednesday.

September 24 . . . Academic year begins — Thursday morning.

December 23 Christmas recess begins.

AMOS TUCK SCHOOL OF ADMINISTRATION AND FINANCE

1902

September 18 . . . Year began — Thursday morning.

November 27 . . . Thanksgiving Day; a holiday.

Recess from December 23, 10 A.M., to January 6, inclusive.

1903

January 23 to Feb. 4 Examinations for First Year Course.

April 1-15 Recess for First Year Course.

May 6 Second Year Course ends.

June 5-13 Examinations for First Year Course.

THAYER SCHOOL OF CIVIL ENGINEERING

1902

July 15 First Year Course of thirty-nine weeks began.

September 15 . . . Second Year Course of thirty weeks began.

December 24 . . . Recess of eight days begins.

1903

April 10 Second Year Course ends.

Summer Vacation for First Year Course begins.

MEDICAL SCHOOL

1902

July 15 Third and Fourth Year Courses began —
Tuesday.

September 18 . . . First and Second Year Courses began —
Thursday morning.

Recess from December 23, 10 A.M., to January 6, inclusive.

1903

February 21 . . . Third and Fourth Year Courses end.

February 23, 24 . . Examinations by Delegates.

February 24 . . . Graduating Exercises.

April 1 Second Year Course ends.

June 20 First Year Course ends.

July 14 Third and Fourth Year Courses begin —
Tuesday.

September 24 . . . First and Second Year Courses begin —
Thursday morning.

CHARTER



THE
CHARTER OF DARTMOUTH COLLEGE

GEORGE THE THIRD by the grace of GOD of Great Britain
France and Ireland KING Defender of the Faith, and so
forth. —

To all to whom these Presents shall come.

GREETING.

WHEREAS it hath been represented to our Trusty and well beloved JOHN WENTWORTH Esquire Governor and Commander in Chief in and over our Province of NEW HAMPSHIRE in New England in AMERICA, that the Reverend ELEAZER WHELOCK of Lebanon in the Colony of Connecticut in New England aforesaid, now Doctor in Divinity, did on or about the year of our Lord one thousand seven hundred and Fifty four, at his own expence, on his own Estate and Plantation set on foot an INDIAN Charity School and for several years through the assistance of well-disposed Persons in America, cloathed, maintained and educated a number of the Children of the Indian Natives, with a view to their carrying the Gospel in their own Language and spreading the knowledge of the great Redeemer among their Savage Tribes, and hath actually employ'd a number of them as Missionaries and Schoolmasters in the Wilderness for that purpose : and by the blessing of GOD upon the endeavours of said Wheelock the design became reputable among the Indians insomuch that a larger number desired the Education of their Children in said School ; and were also disposed to receive Missionaries and Schoolmasters in the Wilderness more than could be supported by the charitable Contributions in these American Colonies. — WHEREUPON the said Eleazer Wheelock thought it expedient that endeavours should be used to raise Contributions from well disposed Persons in England for the carrying on and extending said undertaking, And for that purpose said Eleazer Wheelock requested the Reverend Nathaniel

Whitaker now Doctor in Divinity to go over to England for that purpose, and sent over with him the Reverend Samson Occom an Indian Minister who had been educated by the said Wheelock, And to enable the said Whitaker to the more successful performance of said Work on which he was sent, said Wheelock gave him a full Power of Attorney by which said Whitaker solicited those worthy & generous Contributors to the Charity viz^t. The Right Honorable WILLIAM Earl of DARTMOUTH, The Honorable Sir SIDNEY STAFFORD SMYTHE Knight, one of the Barons of his Majesty's Court of Exchequer, JOHN THORNTON of Clapham in the County of Surrey Esquire, SAMUEL ROFFEY of Lincoln's Inn fields in the County of Middlesex Esquire, CHARLES HARDY of the parish of Saint Mary-le-bonne in said County Esquire, DANIEL WEST of Christ's church Spitalfields in the County aforesaid Esquire, SAMUEL SAVAGE of the same place Gentleman, JOSIAH ROBERTS of the parish of Saint Edmund the King Lombard Street, London Gentleman, and ROBERT KEEN of the parish of Saint Botolph Aldgate London, Gentleman, to receive the several Sums of Money which should be contributed, and to be Trustees for the Contributors to such Charity, which they cheerfully agreed to. Whereupon the said Whitaker did by virtue of said Power of Attorney constitute and appoint the said Earl of Dartmouth Sir Sydney Stafford Smythe, John Thornton, Samuel Roffey, Charles Hardy & Daniel West Esquires, and Samuel Savage Josiah Roberts and Robert Keen Gentlemen to be Trustees of the Money which had then been contributed, and which should by his means be contributed for said Purpose; which Trust they have accepted as by their engrossed Declaration of the same under their Hands and Seals well executed fully appears, and the same has also been ratified by a deed of Trust well executed by the said Wheelock;— And the said Wheelock further represents that he has by power of Attorney for many weighty reasons, given full Power to the said Trustees to fix upon and determine the place for said School most subservient to the great end in view, and to enable them understandingly to give the preference, the said Wheelock has laid before the said Trustees the several Offers which have been generously made in the several Governments in America to encourage and invite the settlement of said School among them for their own private emolument, and the increase of Learning in their respective places as well as for the furtherance of the general design in view. And whereas a large number of the Proprietors of Lands in the western part of this our Province of New Hampshire,

animated & excited thereto by the generous example of his Excellency their Governor, and by the liberal Contributions of many Noblemen and Gentlemen in England; and especially by the consideration that such a situation would be as convenient as any for carrying on the great design among the Indians; and also considering that without the least impediment to the said design the same School may be enlarged & improved to promote Learning among the English, & be a means to supply a great number of Churches & Congregations which are likely soon to be formed in that new Country with a learned & orthodox ministry; they the said Proprietors have promised large Tracts of Land for the uses aforesaid, provided the School shall be settled in the western part of our said Province. And they the said Right Honorable, Honorable and worthy Trustees before mentioned having maturely consider'd the reasons & arguments in favour of the several Places proposed, have given the preference to the western part of our said Province lying on Connecticut River, as a situation most convenient for said School; And the said Wheelock has further represented a necessity of a legal Incorporation in order to the safety and well being of said Seminary, and its being capable of the tenure & disposal of Lands & bequests for the use of the same. And the said Wheelock has also represented that for many weighty reasons it will be expedient at least in the infancy of said Institution or 'till it can be accommodated in that new Country and he & his Friends be able to remove and settle by and round about it, that the Gentlemen whom he has already nominated in his last Will (which he has transmitted to the aforesaid Gentlemen of the Trust in England) to be Trustees in America should be of the Corporation now proposed & also as there are already large Collections for said School in the hands of the aforesaid Gentlemen of the Trust in England and all reason to believe from their singular wisdom, piety and zeal to promote the Redeemers cause (which has already procured for them the utmost confidence of the Kingdom) we may expect they will appoint Successors in time to come who will be men of the same Spirit whereby great good may & will accrue many ways to the institution & much be done by their example and influence to encourage and facilitate the whole design in view; for which reason said Wheelock desires that the Trustees aforesaid may be vested with all that power therein which can consist with their distance from the same KNOW YE THEREFORE, that We considering the Premises and being willing to encourage the laudable & charitable design of spreading Christian

Knowledge among the Savages of our American Wilderness and also that the best means of Education be established in our Province of New Hampshire for the benefit of said Province, DO of our special grace certain knowledge and mere motion by and with the advice of our Council for said Province by these Presents Will, ordain, grant & constitute that there be a College erected in our said Province of New Hampshire by the name of DARTMOUTH COLLEGE for the education & instruction of Youth of the Indian Tribes in this Land in reading, writing & all parts of Learning which shall appear necessary and expedient for civilizing & christianizing Children of Pagans as well as in all liberal Arts and Sciences; and also of English Youth and any others, and the Trustees of said College may and shall be one body corporate and politick in deed action & name, and shall be called, named & distinguish'd by the Name of the TRUSTEES of DARTMOUTH COLLEGE And further we have willed given granted constituted and ordained and by this our present Charter of our special grace certain knowledge & mere motion with the advice aforesaid DO for us our heirs and successors forever will give grant constitute & ordain that there shall be in the said DARTMOUTH COLLEGE from henceforth and forever a body politick consisting of Trustees of said Dartmouth College And for the more full & perfect erection of said Corporation & body politick consisting of Trustees of Dartmouth College We of our special grace certain knowledge & mere motion DO by these Presents for us our Heirs & Successors make ordain constitute and appoint our trusty and well beloved JOHN WENTWORTH, Esquire Governor of our said Province and the GOVERNOR of our said Province of New Hampshire for the time being and our Trusty and well beloved THEODORE ATKINSON Esquire now President of our Council of our said Province GEORGE JAFFREY & DANIEL PIERCE Esquires both of our said Council and PETER GILMAN Esquire now Speaker of our House of Representatives in said Province & WILLIAM PITKIN, Esquire one of the Assistants of our Colony of Connecticut & our said trusty and well beloved ELEAZER WHELOCK of Lebanon Doctor in Divinity, BENJAMIN POMROY of Hebron JAMES LOCKWOOD of Weathersfield TIMOTHY PITKIN & JOHN SMALLEY of Farmington & WILLIAM PATTEN of Hartford all of our said Colony of Connecticut Ministers of the Gospel. (the whole number of said Trustees consisting and hereafter forever to consist of TWELVE & no more) to be Trustees of said Dartmouth College in this our Province of New Hampshire And we do further of our special grace certain knowl-

edge and mere motion for us our Heirs and Successors will give grant and appoint that the said Trustees & their Successors shall forever hereafter be in deed act & name, a body corporate & politick & that they the said body corporate & politick shall be known & distinguished in all deeds grants bargains sales writings evidences or otherwise howsoever, & in all Courts forever hereafter plead and be impleaded by the Name of the Trustees of Dartmouth College and that the said Corporation by the name aforesaid shall be able and in law capable for the use of said Dartmouth College to have get acquire purchase receive hold possess and enjoy tenements hereditaments jurisdictions and franchises for themselves and their Successors in fee simple or otherwise howsoever & to purchase receive or build any House or Houses or any other buildings as they shall think needful & convenient for the use of said Dartmouth College and in such Town in the western part of our said Province of New Hampshire as shall by said Trustees or the major part of them be agreed on their said agreement to be evidenced by an instrument in writing under their hands ascertaining the same And also to receive and dispose of any Lands goods chattels and other things of what nature soever for the use aforesaid And also to have accept and receive any rents profits annuities gifts legacies donations or bequests of any kind whatsoever for the use aforesaid so nevertheless that the yearly value of the Premises do not exceed the Sum of six thousand pounds Sterling¹ and therewith or otherwise to support and pay as the said Trustees or the major part of such of them as are regularly convened for that purpose shall agree the President Tutors and other Officers & Ministers of said Dartmouth College & also to pay all such Missionaries and Schoolmasters as shall be authorized appointed & employed by them for civilizing & christianizing & instructing the Indian Natives of this Land their several allowances & also their respective annual Salaries or allowances & all such necessary & contingent charges as from time to time shall arise & accrue relating to the said Dartmouth College And also to bargain sell let or assign Lands tenements or hereditaments goods, or chattels & all other things whatsoever by the name aforesaid in as full and ample a manner to all intents and purposes as a natural person or other body politick or corporate is able to do by the laws of our realm of Great Britain or of said province of New Hampshire And further of our special grace certain knowledge & mere motion to the intent that our said Corporation & body politick

¹ Subsequently amended so as to remove all limitations.

may answer the end of their erection & Constitution, & may have perpetual succession & continuance forever We do for us our heirs and Successors will give & grant unto the Trustees of Dartmouth College & to their Successors forever that there shall be once a year & every year a meeting of said Trustees held at said Dartmouth College at such time as by said Trustees or the major part of them at any legal meeting of said Trustees shall be agreed on the first meeting to be called by the said Eleazer Wheelock as soon as conveniently may be within one year next after the enrollment of these our Letters Patent at such time & place as he shall judge proper And the said Trustees or the major part of any seven or more of them shall then determine on the time for holding the annual Meeting aforesaid which may be alter'd as they shall hereafter find most convenient And we further order and direct that the said Eleazer Wheelock shall notify the time for holding said first meeting to be called as aforesaid by sending a letter to each of said Trustees & causing an advertizement thereof to be printed in the New Hampshire Gazette & in some publick News Paper printed in the Colony of Connecticut But in case of the Death or incapacity of the said Wheelock then such meeting to be notified in manner aforesaid by the Governor or Commander in Chief of our said Province for the time being And we do also for us our Heirs & successors hereby will give and grant unto the said Trustees of Dartmouth College aforesaid & to their Successors forever that when any seven or more of the said Trustees or their Successors are convened & met together for the service of said Dartmouth College at any time or times such seven or more shall be capable to act as fully & amply to all intents & purposes as if all the Trustees of said College were personally present — & all affairs & actions whatsoever under the care of the said Trustees shall be determined by the majority or greater number of those seven or more Trustees so convened & met together And we do further will ordain & direct that the President Trustees, Professors & Tutors & all such Officers as shall be appointed for the publick instruction & government of said College shall before they undertake the execution of their Offices or Trusts or within one year after take the Oaths & subscribe the declaration provided by an act of Parliament made in the first year of King George the first entitled "An act for the further security of his Majesty's Person & government & the succession of the Crown in the heirs of the late princess Sophia being Protestants, & for the extinguishing the hopes of the pretended Prince of Wales & his open & secret Abettors," that is to say the President before the Governor of our

said Province for the time being or by one by him impowered to that service or by the President of our said Council & the Trustees Professors Tutors & other Officers before the President of said College for the time being who is hereby impower'd to administer the same an entry of all which shall be made in the Records of said College And we do for us our heirs & Successors hereby will give & grant full Power & Authority to the President hereafter by us named & to his Successors or in case of his failure to any three or more of the said Trustees to appoint other occasional meetings from time to time of the said seven Trustees or any greater number of them to transact any matter or thing necessary to be done before the next annual meeting and to order notice to the said seven or any greater number of them of the times & places of meeting for the service aforesaid by a letter under his or their hands of the same one month¹ before said meeting Provided always that no standing Rule or order be made or altered for the regulation of said College nor any President or Professor be chosen or displaced nor any other matter or thing transacted or done which shall continue in force after the then next annual meeting of said Trustees as aforesaid And further we do by these Presents for us our Heirs and Successors, create make constitute nominate & appoint our Trusty and well beloved ELEAZER WHELOCK Doctor in Divinity the FOUNDER of said College to be PRESIDENT of said DARTMOUTH COLLEGE and to have the immediate care of Education & government of such Students as shall be admitted into said DARTMOUTH COLLEGE for instruction & education and do will give & grant to him in said Office full power authority & right to nominate appoint constitute & ordain by his last will such suitable & meet person or Persons as he shall chuse to succeed him in the Presidency of said Dartmouth College & the person so appointed by his last Will to continue in Office vested with all the powers priviledges Jurisdiction & authority of a President of said Dartmouth College that is to say so long and untill such appointment by said last Will shall be disapproved by the Trustees of said Dartmouth College And we do also for us our heirs and Successors will give & grant to the said Trustees of said Dartmouth College & to their Successors forever or any seven or more of them convened as aforesaid that in the case of the ceasing or failure of a President by any means whatsoever that the said Trustees do elect nominate & appoint SUCH qualified person as they or the major part of any seven or more of them convened for that purpose as

¹ Amended so that a legal meeting may be held at such time and upon such notice as may be prescribed by the rules of the Trustees.

above directed shall think fit to be PRESIDENT of said DARTMOUTH COLLEGE and to have the care of the Education & government of the Students as aforesaid & in case of the ceasing of a President as aforesaid the Senior Professor or Tutor being one of the Trustees shall exercise the Office of a President untill the Trustees shall make choice of & appoint a President as aforesaid & such Professor or Tutor or any three or more of the Trustees shall immediately appoint a meeting of the body of the Trustees for the purpose aforesaid AND also we do will give and grant to the said Trustees convened as aforesaid that they elect nominate & appoint so many Tutors and Professors to assist the President in the Education & government of the Students belonging thereto as they the said Trustees shall from time to time & at any time think needful & serviceable to the interests of said Dartmouth College And also that the said Trustees or their Successors or the major part of any seven or more of them convened for that purpose as above directed shall at any time displace & discharge from the service of said Dartmouth College any or all such Officers & elect others in their room & stead as before directed And also that the said Trustees or their successors or the major part of any seven of them which shall convene for that purpose as above directed do from time to time as occasion shall require elect constitute & appoint a TREASURER a CLERK an USHER & a Steward for the said DARTMOUTH COLLEGE & appoint to them & each of them their respective businesses & trusts & displace & discharge from the service of said College such Treasurer Clerk Usher or Steward & to elect others in their room & stead which Officers so elected as before directed We do for us our heirs & successors by these Presents constitute & establish in their respective Offices & do give to each & every of them full power & Authority to exercise the same in said Dartmouth College according to the directions & during the pleasure of the said Trustees as fully & freely as any like Officers in any of our Universities Colleges or Seminaries of learning in our Realm of Great Britain lawfully may or ought to do, & also that the said Trustees & their Successors or the major part of any seven or more of them which shall convene for that purpose as is above directed as often as one or more of said Trustees shall die or by removal or otherwise shall according to their judgement become unfit or incapable to serve the interests of said College do as soon as may be after the Death removal or such unfitness or incapacity of such Trustee or Trustees elect & appoint such Trustee or Trustees as shall supply the place of him or them so dying or becoming incapable to serve the

interests of said College & every Trustee so elected & appointed shall by virtue of these presents & such election & appointment be vested with all the Powers & privileges which any of the other Trustees of said College are hereby vested with And we do further Will ordain & direct that from & after the expiration of Two years from the enrollment of these Presents such vacancy or vacancies as may or shall happen by death or otherwise in the aforesaid number of Trustees shall be filled up by election as aforesaid so that when such vacancies shall be filled up unto the complete number of TWELVE Trustees Eight¹ of the aforesaid whole number of the body of Trustees shall be resident and respectable Freeholders of our said Province of New Hampshire & seven of said whole number shall be Laymen And we do further of our special grace certain knowledge & mere motion will give and grant unto the said Trustees of Dartmouth College that they and their Successors or the major part of any seven of them which shall convene for that purpose as is above directed may make & they are hereby fully empowered from time to time fully & lawfully to make and establish such Ordinances Orders & Laws as may tend to the good & wholesome government of the said College & all the Students & the several Officers & Ministers thereof & to the publick benefit of the same not repugnant to the Laws & Statutes of our Realm of GREAT BRITAIN or of this our Province of NEW HAMPSHIRE and not excluding any Person of any religious denomination whatsoever from free & equal liberty & advantage of Education or from any of the liberties and privileges or immunities of the said College on account of his or their speculative sentiments in Religion, & of his or their being of a religious profession different from the said Trustees of the said Dartmouth College And such Ordinances orders & Laws which shall as aforesaid be made We do by these presents for us our heirs & Successors ratify allow of, & confirm as good & effectual to oblige & bind all the Students & the several Officers & Ministers of the said College And we do hereby authorize & empower the said Trustees of Dartmouth College & the President Tutors & Professors by them elected & appointed as aforesaid to put such ordinances laws and orders in execution to all proper intents and purposes And we do further of our special grace certain knowledge & mere motion Will give & grant unto the said Trustees of said Dartmouth College for the encouragement of Learning and animating the Students of said College to diligence & industry & a laudable progress in Literature that they & their

¹ Subsequently amended so as to read seven.

Successors or the major part of any seven or more of them convened for that purpose as above directed do by the President of said College for the time being or any other deputed by them give & grant any such degree or degrees to any of the Students of the said College or any others by them thought worthy thereof as are usually granted in either of the Universities or any other College in our Realm of Great Britain & that they sign & seal Diplomas or certificates of such Graduations to be kept by the Graduates as perpetual memorials & testimonials thereof. AND we do further of our special grace certain knowledge & mere motion for us our heirs & Successors by these Presents give & grant unto the Trustees of said Dartmouth College & to their Successors that they & their Successors shall have a common SEAL under which they may pass all Diplomas or Certificates of degrees & all other affairs & business of & concerning the said College which shall be engraven in such a form and with such an inscription as shall be devised by the said Trustees for the time being or by the major part of any seven or more of them convened for the service of the said College as is above directed And we do further for us our heirs & Successors give and grant unto the said Trustees of the said Dartmouth College & their Successors or to the major part of any seven or more of them convened for the service of the said College full power & Authority from time to time to nominate & appoint all other Officers & Ministers which they shall think convenient & necessary for the service of the said College not herein particularly named or mention'd which Officers & Ministers we do hereby empower to execute their Offices & Trusts as fully & freely as any of the Officers & Ministers in our Universities or Colleges in our REALM of GREAT BRITAIN lawfully may or ought to do. AND further that the generous Contributors to the support of this design of spreading the knowledge of the only true God and Saviour among the American Savages may from time to time be satisfied that their liberalities are faithfully disposed of in the best manner for that purpose & that others may in future time be encouraged in the exercise of the like liberality for promoting the same pious design it shall be the duty of the President of the said Dartmouth College & of his Successors annually or as often as he shall be thereunto desired or required to transmit to the Right honorable, honorable & worthy Gentlemen of the Trust in England before mentioned a faithful account of the improvement & disbursements of the several Sums he shall receive from the Donations & bequests made in England through the hands of said Trustees & also advise them of the general plans

laid and prospects exhibited as well as a faithful account of all remarkable occurrences in order if they shall think expedient that they may be published And this to continue so long as they shall perpetuate their board of Trust & there shall be any of the Indian Natives remaining to be proper Objects of that Charity AND lastly our express Will & pleasure is and we do by these presents for us our heirs and Successors give & grant unto the said Trustees of Dartmouth College & to their Successors forever that these our Letters Patent or the enrollment thereof in the SECRETARY'S Office of our Province of New Hampshire aforesaid shall be good & effectual in the Law to all intents & purposes against us our heirs and Successors without any other License Grant or Confirmation from us our heirs & successors hereafter by the said Trustees to be had & obtained notwithstanding the not writing or misrecital not naming or misnaming the aforesaid Offices Franchises Priviledges Immunities or other the Premises or any of them and notwithstanding a writ of Ad quod Damnum hath not issued forth to enquire of the Premises or any of them before the ensealing hereof any Statute Act Ordinance or Provision or any other matter or thing to the contrary notwithstanding TO HAVE AND TO HOLD ALL & singular the Privileges Advantages Liberties Immunities and all other the Premises herein & hereby granted & given or which are meant mentioned or intended to be herein & hereby given and granted unto them the said TRUSTEES of DARTMOUTH COLLEGE and to their Successors forever. IN TESTIMONY whereof We have caused these our Letters to be made Patent and the publick Seal of our said Province of NEW HAMPSHIRE to be hereunto affixed WITNESS our Trusty and well beloved JOHN WENTWORTH Esquire Governor and Commander in Chief in and over our said Province &c^a. this THIRTEENTH day of December in the Tenth year of our Reign and in the year of our Lord one thousand seven hundred and Sixty nine.

By his Excellency's Command }
with advice of Council }

THEODORE ATKINSON, Sec'y

Province of New Hampshire Decemb^r 18th 1769.

Recorded in the book of Charters

Lib: 4^o Fol. 22 to 23 both inclusive.

Per

THEODORE ATKINSON, Sec'y

JOHN WENTWORTH.

HISTORICAL NOTE

- DARTMOUTH COLLEGE is the outgrowth of a school which the Reverend Eleazer Wheelock opened in his home at Lebanon, Conn., December 18, 1754, for the Christian education of Indian youth. The school was known as Moor's Indian Charity School, so named from Joshua Moor, who contributed a house and two acres of land.

Funds for the maintenance of the school were received from various sources, — from private individuals, from the General Courts of Massachusetts Bay and of New Hampshire, and from Great Britain, where the enterprise had awakened the deepest interest. From the latter source an endowment was secured, chiefly through the efforts of Samson Occom, the Indian preacher, one of Dr. Wheelock's students, who was commissioned to make a tour of England and Scotland for this purpose in 1765. The sum of ten thousand pounds was thus raised, and committed to the charge of a board of trustees with the Earl of Dartmouth at its head. As the result of this endowment it was determined by Dr. Wheelock to enlarge the purpose of the school especially to reach "a greater proportion of English youth," and to change its location. Various proposals for a site were made, but after careful investigation the site chosen was the township of Hanover, in the region of Cowas or Coös, in the province of New Hampshire. Apart from the nearness of this site to the Canadian Indians, the determining reason for the choice seems to have been the attractiveness of the location, and the fact that it was the natural center of "more than two hundred towns, chartered, settled, or about to be settled." Removal to the Province of New Hampshire also gave the assurance of a charter, which it had thus far been difficult to obtain.

The draft of the charter prepared by Dr. Wheelock received important modifications from the Governor of the Province, John Wentworth. In particular he rejected the suggestion of a coördinate board of trustees in Great Britain; he gave to the college the name of Lord Dartmouth, its most active patron in Great Britain, although Wheelock had proposed to the Governor to call it by the name of Wentworth; and instead of incorporating it as a "school" or "academy," he

adopted a hint from Wheelock's postscript and made it a "college." The first board of trustees consisted of the Governor with three of his council, the speaker of the New Hampshire House of Representatives, one member of the Connecticut Colonial government, and six Connecticut clergymen selected by Dr. Wheelock.

Dr. Wheelock was elected president of the college, with Mr. Beza-leel Woodward, a graduate of Yale in 1764, as his associate. The first class of four students was graduated in 1771, the Commencement being attended by the Governor of the Province of New Hampshire and a company of gentlemen from Portsmouth, who made their way in part through almost trackless forests.

Two events in the early history of the college materially affected its character and growth. First, the gradual withdrawal of the support of its patrons in Great Britain, whose interest lay chiefly in the education of Indians; second, the lawsuit between the college and the state of New Hampshire for the control of the college, which resulted in a final decision by the Supreme Court of the United States in favor of the Trustees of Dartmouth College. The decision in "The Dartmouth College Case" was rendered in February, 1819. Since the reestablishment of the college by this decision, its history has followed the general course of educational progress in New England.

Other institutions have from time to time been associated with or incorporated into the college.

Moor's Indian Charity School was made an independent institution when the college was founded. The school was maintained as late as 1849. It still has a legal existence with the title — "The President of Moor's Charity School." The trustees are the same in person with those of the college, though forming a separate corporation.

The Dartmouth Medical School dates from the establishment in 1798 of a professorship of medicine in the college, first filled by Dr. Nathan Smith, who was instrumental in its establishment. The school is under the general control of the Trustees of Dartmouth College, by which body degrees are conferred, but the management of its affairs is committed to the Medical Faculty. Associated with the Medical College is the Mary Hitchcock Hospital (1893), the memorial gift of Hiram Hitchcock, Esq., of Hanover.

The Chandler School of Science and the Arts, established in 1851 by a resolution of the trustees, in acceptance of a sum bequeathed to them in trust by Abiel Chandler, Esq., "for the establishment and support of a permanent department or school of instruction in the col-

lege, in the practical and useful arts of life," was more formally incorporated into the College by the joint action of the Trustees of the College and the Visitors of the Chandler School in 1893, and is now known as the Chandler Scientific Course in the College, leading to the degree of B.S.

The Thayer School of Civil Engineering, established in 1867 by the bequest of General Sylvanus Thayer, Class of 1807, is essentially a graduate school, covering a course of two years, and conferring the degree of Civil Engineer. The funds of the School are in charge of the Trustees of the College; otherwise its affairs are managed by a board of overseers, which is a close corporation.

The Amos Tuck School of Administration and Finance, established in 1900 by Mr. Edward Tuck, Class of 1862, as a memorial to his father, Honorable Amos Tuck, Class of 1835, a Trustee of the College, 1857 to 1866, is also a graduate school covering a course of two years. It is the object of the School to train college graduates who desire to engage in affairs rather than to enter the professions. The School is administered by the Trustees of the College.

The presidency of the college has been held as follows:

Eleazer Wheelock, 1769-1779.	Bennett Tyler, 1821-1828.
John Wheelock, 1779-1815.	Nathan Lord, 1828-1863.
Francis Brown, 1815-1820.	Asa Dodge Smith, 1863-1877.
Daniel Dana, 1820-1821.	Samuel Colcord Bartlett, 1877-1892.
William Jewett Tucker, 1893-.	

REGISTER

TRUSTEES OF DARTMOUTH COLLEGE

AND OF MOOR'S CHARITY SCHOOL

WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.
HIS EXCELLENCY CHESTER BRADLEY JORDAN, LL.D.
 (ex officio) Lancaster, N. H.
HENRY FAIRBANKS, PH.D. St. Johnsbury, Vt.
WILLIAM MARTIN CHASE, LL.D. . . . Concord, N. H.
JAMES BAILEY RICHARDSON, LL.D. . . Boston, Mass.
CYRUS RICHARDSON, D.D. Nashua, N. H.
FRANK SHERWIN STREETER, A.B. . . Concord, N. H.
CHARLES FREDERICK MATHEWSON, LL.B.
 New York, N. Y.
EDWARD DANA REDINGTON, A.M. . . . Chicago, Ill.
BENJAMIN AMES KIMBALL, B.S. . . . Concord, N. H.
JOHN ROBIE EASTMAN, PH.D. . . . Andover, N. H.
WILLIAM HENRY DAVIS, D.D. . . . Newton, Mass.

TREASURER

CHARLES PARKER CHASE, A.M. Hanover, N. H.

EX OFFICIO TRUSTEES OF THE COLLEGE IN RELATION TO FUNDS GIVEN BY THE STATE OF NEW HAMPSHIRE.

COUNCILLORS

HON. JAMES B. TENNANT Epsom
HON. LORING B. BODWELL Manchester
HON. CHARLES H. HERSEY Keene
HON. EDMUND E. TRUESDELL Pembroke
HON. ROBERT N. CHAMBERLIN Berlin

THE PRESIDENT OF THE SENATE

HON. BERTRAM ELLIS *Keene*

THE SPEAKER OF THE HOUSE OF REPRESENTATIVES

HON. CYRUS H. LITTLE *Manchester*

THE CHIEF JUSTICE OF THE SUPREME COURT

HON. FRANK N. PARSONS *Franklin*

 STANDING COMMITTEES OF THE TRUSTEES FOR
THE YEAR 1902-1903

COMMITTEE ON FINANCE,

Messrs. J. B. Richardson, Kimball, Mathewson, Chase.

ON INSTRUCTION,

Messrs. C. Richardson, Fairbanks, Chase, Eastman, Davis.

ON EQUIPMENT,

Messrs. Fairbanks, Redington, Eastman.

ON BUILDINGS AND IMPROVEMENTS,

Messrs. Streeter, J. B. Richardson, Kimball, Mathewson.

ON DEGREES,

Messrs. Chase, C. Richardson, Redington.

ON RELATION OF COLLEGE TO STATE,

Messrs. Kimball, C. Richardson, Streeter.

ON RELATION OF COLLEGE TO ALUMNI,

Messrs. J. B. Richardson, Fairbanks, Redington.

ON LEGAL MATTERS,

Messrs. Chase, J. B. Richardson, Streeter.

The President of the College is a member *ex officio* of the Committee on Finance, on Instruction, on Equipment, on Buildings and Improvements, and on Degrees.

VISITORS ON THE CHANDLER FOUNDATION

DAVID HERBERT ANDREWS, B.S. *Newton Centre, Mass.*

OVERSEERS OF THE THAYER SCHOOL OF
CIVIL ENGINEERING

THE PRESIDENT OF DARTMOUTH COLLEGE.

GEN. JOHN CARVER PALFREY *Boston, Mass.*

GEN. HENRY LARCOM ABBOT, LL.D. . . *Cambridge, Mass.*

JONATHAN PARKER SNOW, C.E. *Boston, Mass.*

PROF. GUSTAV JOSEPH FIEBEGGER. . . *West Point, N. Y.*

THE COLLEGE ADMINISTRATION

PRESIDENT — William Jewett Tucker — Administration Building,
8 to 10 A. M. daily.

ACTING PRESIDENT — John King Lord.

TREASURER — Charles Parker Chase — Bank Building, 10.30 to
11.30 A. M., 1.30 to 2.30 P. M. daily.

SECRETARY TO THE PRESIDENT — Ernest Martin Hopkins — Ad-
ministration Building, 8 to 10 A. M. daily, 2 to 4 P. M., except
Saturdays.

DEAN OF ACADEMIC FACULTY — Charles Franklin Emerson —
Administration Building, 10.30 to 11.30 A. M. daily, 1.30 to 2.30
P. M., except Wednesdays and Saturdays.

REGISTRAR — Howard Murray Tibbetts — Administration Building,
9.30 to 11.30 A. M. daily, 1.30 to 2.30 P. M., except Wednesdays
and Saturdays.

DEAN OF THE MEDICAL FACULTY — William Thayer Smith —
No. 9 School St., 1.30 to 2.30 P. M. daily.

SECRETARY OF THE MEDICAL FACULTY — Gilman DuBois Frost —
No. 13 E. Wheelock St., 8 to 8.30 A. M., 1.30 to 2, 7 to 7.30 P. M. daily.

DIRECTOR OF THE THAYER SCHOOL — Robert Fletcher — Thayer
Building, 9 to 10 A. M. daily.

SECRETARY OF TUCK SCHOOL — Frank Haigh Dixon — Hubbard
House, 8.30 to 9 A. M. daily.

DIRECTOR OF GRADUATE DEPARTMENT OF PEDAGOGY — Charles
Darwin Adams — Administration Building.

CHAIRMAN OF COMMITTEE ON GRADUATE INSTRUCTION — Charles
Francis Richardson — No. 6 School St.

DIRECTOR OF SUMMER SCHOOL — Thomas Wilson Dorr Worthen
— Administration Building.

LIBRARIAN — Marvin Davis Bisbee — Wilson Hall, 9 to 12 A. M.,
1 to 5 P. M. daily.

MEDICAL DIRECTOR — Howard Nelson Kingsford — Bank Building,
7 to 8 P. M. daily. (After Dec. 1, 4.30 to 6 P. M. daily.)

SUPERINTENDENT OF BUILDINGS — Alexander Anderson McKenzie
— Administration Building, 8 to 8.30 and 11.30 to 12 A. M., and
5.30 to 6 P. M. daily.

OFFICERS OF ADMINISTRATION AND INSTRUCTION¹

- WILLIAM JEWETT TUCKER, D.D., LL.D., *President.*
43 College St.
- JOHN ORDRONAU, M.D., LL.D., *Professor of Medical Juris-
prudence.*
Roslyn, N. Y.
- CHARLES HENRY HITCHCOCK, PH.D., LL.D., *Hall Pro-
fessor of Geology and Curator of Butterfield Museum.*
15 E. Wheelock St.
- GRANVILLE PRIEST CONN, A.M., M.D., *Professor of Hy-
giene.*
Concord, N. H.
- HENRY MARTYN FIELD, A.M., M.D., *Professor Emeritus of
Therapeutics.*
Pasadena, Cal.
- PHINEAS SANBORN CONNER, M.D., LL.D., *Professor Emer-
itus of Surgery.*
215 W. 9th St., Cincinnati, O.
- EDWARD COWLES, M.D., LL.D., *Professor of Mental Diseases.*
Waverley, Mass.
- WILLIAM THAYER SMITH, M.D., LL.D., *Professor of Physi-
ology and Dean of the Medical Faculty.*
9 School St.
- GEORGE PUTNAM HUNTINGTON, D.D., *Instructor in
Hebrew.*
19 S. Main St.
- GABRIEL CAMPBELL, M.Pd., D.D., *Stone Professor of Intel-
lectual and Moral Philosophy.*
29 N. Main St.
- ROBERT FLETCHER, PH.D., *Professor of Civil Engineering
and Director of the Thayer School.*
42 College St.
- CHARLES FRANKLIN EMERSON, A.M., *Dean of the Aca-
demic Faculty.*
33 College St.

¹ Arranged, with the exception of the President, according to College Seniority.

- JOHN KING LORD, PH.D., *Daniel Webster Professor of the Latin Language and Literature.* 37 College St.
- DAVID WEBSTER, M.D., *Professor of Ophthalmology.* 327 Madison Ave., New York, N. Y.
- WILLIAM HENRY PARISH, M.D., *Professor of Obstetrics.* 1435 Spruce St., Philadelphia, Penn.
- CHARLES BEYLARD NANCREDE, M.D., LL.D., *Professor of Surgery.* 720 S. University Ave., Ann Arbor, Mich.
- FRANK ASBURY SHERMAN, M.S., *Professor of Mathematics on the Chandler Foundation.* 37 N. Main St.
- CHARLES FRANCIS RICHARDSON, PH.D., *Winkley Professor of the English Language and Literature.* 6 School St.
- MARVIN DAVIS BISBEE, B.D., *Professor of Bibliography and Librarian.* 11 W. Wheelock St.
- THOMAS WILSON DORR WORTHEN, A.M., *Cheney Professor of Mathematics.* 11 Webster Ave.
- EDWIN JULIUS BARTLETT, A.M., M.D., *New Hampshire Professor of Chemistry.* 8 W. Wheelock St.
- JAMES FAIRBANKS COLBY, A.M., LL.D., *Parker Professor of Law and Political Science.* 2 Elm St.
- GEORGE ADAMS LELAND, A.M., M.D., *Professor of Laryngology.* 669 Boylston St., Boston, Mass.
- JOHN VOSE HAZEN, C.E., *Woodman Professor of Civil Engineering and Graphics on the Chandler Foundation.* 33 N. Main St.
- CHARLES DARWIN ADAMS, PH.D., *Lawrence Professor of the Greek Language and Literature.* 1 N. Park St.
- JUSTIN HARVEY SMITH, A.M., *Professor of Modern History.* 38 N. Main St.
- CHARLES HENRY MORSE, MUS. BAC., *Musical Director.* 11 E. Wheelock St.
- AUGUSTUS PALMER DUDLEY, M.D., *Professor of Gynecology.* 678 Madison Ave., New York, N. Y.
- DAVID COLLIN WELLS, A.B., *Professor of Sociology.* 20 N. Main St.
- TILGHMAN MINNOUR BALLIET, A.M., M.D., *Professor of Therapeutics.* 3709 Powelton Ave., Philadelphia, Penn.

- ROBERT LONGLEY TAYLOR, PH.D., *Assistant Professor of French.*
30 N. Main St.
- WILLIAM PATTEN, PH.D., *Professor of Zoölogy.*
15 Webster Ave.
- GEORGE DANA LORD, A.M., *Associate Professor of Greek and of Greek Archæology.*
31 The Hanover Inn.
- HERBERT DARLING FOSTER, A.M., *Professor of History.*
9 Webster Ave.
- GILMAN DuBOIS FROST, A.M., M.D., *Professor of Anatomy and Secretary and Treasurer of the Medical Faculty.*
13 E. Wheelock St.
- FRANK GARDNER MOORE, PH.D., *Associate Professor of Latin and of Roman Archæology.*
1 Occom Ridge.
- WARREN AUSTIN ADAMS, PH.D., *Assistant Professor of German.*
16 Occom Ridge.
- FRED PARKER EMERY, A.M., *Willard Professor of Rhetoric and Oratory.*
13 Webster Ave.
- JOHN MARTIN GILE, A.M., M.D., *Professor of the Science and Practice of Medicine.*
1 Maynard St.
- ERNEST FOX NICHOLS, Sc.D., *Appleton Professor of Physics.*
14 The Hanover Inn.
- LOUIS HENRY DOW, A.M., *Professor of French.*
2 Occom Ridge.
(On leave of absence for one year.)
- HARRY EDWIN BURTON, PH.D., *Assistant Professor of Latin.*
5 Occom Ridge.
- JOHN HIRAM GEROULD, PH.D., *Instructor in Zoölogy.*
11 E. Wheelock St.
- GEORGE RAY WICKER, PH.D., *Instructor in Economics.*
20 Occom Ridge.
- FRANK HAIGH DIXON, PH.D., *Assistant Professor of Economics and Secretary of the Tuck School.*
24 Occom Ridge.
- GORDON FERRIE HULL, PH.D., *Assistant Professor of Physics.*
4 W. Wheelock St.
- CHARLES HENRY RICHARDSON, PH.D., *Instructor in Mineralogy and Geology.*
4 College St.
- ERNEST FELIX LANGLEY, A.M., *Assistant Professor of the Romance Languages, (French and Italian).* 27 E. Wheelock St.

- ASHLEY KINGSLEY HARDY, PH.D., *Assistant Professor of German and Instructor in Old English.* 30 N. Main St.
- JOHN LAROEY MANN, C.E., *Assistant Professor of Civil Engineering in the Thayer School.* 4 W. Wheelock St.
- JOHN ELIOT ALLEN, A.B., LL.B., *Instructor in Law.* Keene, N. H.
- SHEPHERD IVORY FRANZ, PH.D., *Instructor in Physiology and Medical Physics.* 46 College St.
- GEORGE RICHARD LYMAN, A.M., *Instructor in Botany.* 30 N. Main St.
- HERMAN HARRELL HORNE, PH.D., *Assistant Professor of Philosophy and Pedagogy.* 5 N. Park St.
- RICHARD WELLINGTON HUSBAND, A.M., *Instructor in Greek and in Classical Philology.* 7 N. Park St.
- CHARLES ARTHUR HOLDEN, C.E., *Instructor in Mathematics, and Assistant in Graphics.* 30 N. Main St.
- FRANK EUGENE AUSTIN, B.S., *Instructor in Electrical Engineering in the Thayer School.* 11 S. Park St.
- CRAVEN LAYCOCK, A.B., *Assistant Professor of Oratory on the Evans Foundation.* 18 Occom Ridge.
- SIDNEY BRADSHAW FAY, PH.D., *Assistant Professor of History.* 33 College St.
- PRESCOTT ORDE SKINNER, A.M., *Instructor in the Romance Languages, (French and Spanish).* 24 N. Main St.
- HOWARD NELSON KINGSFORD, M.D., *Professor of Pathology and Bacteriology, and Medical Director.* 14 Occom Ridge.
- WILLIAM KILBORNE STEWART, A.M., *Instructor in German.* 4 W. Wheelock St.
- CHARLES ERNEST BOLSER, PH.D., *Instructor in Chemistry.* 4 W. Wheelock St.
- JOHN MERRILL POOR, A.B., *Instructor in Astronomy.* Princeton, N. J.
- HARRY BYRON TAPSCOTT, A.M., *Instructor in French and German.* 12 N. Main St.
- HARLOW STAFFORD PERSON, PH.D., *Instructor in Commerce and Industry.* 20 Occom Ridge.
- KAN-ICHI ASAKAWA, PH.D., *Lecturer on The Far East.* 42 The Hanover Inn.

OFFICERS OF INSTRUCTION

33

- HOMER EATON KEYES, B.L., *Instructor in English.*
4 W. Wheelock St.
- CHARLES MARSHALL UNDERWOOD, JR., A.M., *Instructor in French.*
4 W. Wheelock St.
- FRANKLIN CROCKER LEWIS, A.M., *Instructor in Pedagogy.*
2 College St.
- LEON BURR RICHARDSON, B.L., *Instructor in Chemistry.*
37 The Hanover Inn.
- ROBERT LEIGHTON SCALES, A.B., *Instructor in English.*
35 College St.
- WILLIAM HENRY MURRAY, A.B., *Assistant in French.*
11 Hd. H.
-

- ETTA MATTOCKS NEWELL, *Assistant Librarian.*
26 The Hanover Inn.
- ALEXANDER ANDERSON MCKENZIE, B.S., *Superintendent of Buildings.*
4 W. Wheelock St.
- JOHN WILLIAM BOWLER, *Instructor in Physical Culture and Director of the Gymnasium.*
22 Occom Ridge.
- GEORGE HILL EVANS, B.L., *Cataloguer in the Library.*
35 N. Main St.
- FREDERICK WARREN JENKINS, A.B., *Departmental Reference Librarian.*
28 College Hall.
- HENRY NELSON TEAGUE, A.B., *Secretary of the College Club and Comptroller of the Dining Association.*
14 College Hall.
- HOWARD MURRAY TIBBETTS, A.B., *Registrar.*
4 Wentworth St.
- ERNEST MARTIN HOPKINS, A.B., *Secretary to the President.*
4 W. Wheelock St.

BOARD OF PREACHERS 1902-1903

THE PRESIDENT OF THE COLLEGE.

REV. GEORGE ANGIER GORDON, D.D., *Old South Church,
Boston, Mass.*

PROFESSOR FRANCIS BROWN, D.D., *Union Theological
Seminary, New York, N. Y.*

REV. HARRY PINNEO DEWEY, D.D., *Church of the Pilgrims,
Brooklyn, N. Y.*

DEAN GEORGE HODGES, D.D., *Episcopal Divinity School,
Cambridge, Mass.*

PROFESSOR JOHN WINTHROP PLATNER, *Andover Theo-
logical Seminary, Andover, Mass.*

RIGHT REV. ETHELBERT TALBOT, D. D., *Bishop of
Central Pennsylvania.*

REV. THOMAS DAVIS ANDERSON, D.D., *Emanuel
(Baptist) Church, Albany, N. Y.*

REV. GAINS GLENN ATKINS, A.B., . . *First Church,
Burlington, Vt.*

REV. WILLIAM FRASER McDOWELL, D.D., *Secretary
Methodist Education Society, New York.*

PROFESSOR FRANCIS GREENWOOD PEABODY, D.D.,
Harvard University.

The term of service of each Preacher is from two to four Sundays.

The Preacher of the day is at Bartlett Hall on Sunday afternoon
at four-thirty o'clock for personal interviews with the students.

STUDENTS

FELLOW

Buck, Arthur Ela, A. B. 1901. *Hannover, Germany*

GRADUATE STUDENTS

Brown, Julius Arthur	<i>New York, N. Y.</i>	V, Wilder Laboratory
A.B. 1902. Physics: <i>Assistant in Laboratory.</i>		
Chivers, Arthur Houston	<i>Amesbury, Mass.</i>	37 The Hanover Inn
A.B. 1902. Botany: <i>Assistant in Laboratory.</i>		
Field, Arthur Sargent	<i>Chicago, Ill.</i>	4. A. H.
A.B. 1902. Economics: <i>Assistant.</i>		
Fowler, Clayton Holt	<i>Epsom, N. H.</i>	3 College St.
A.B. 1902. Chemistry.		
Fox, Philip	<i>Manhattan, Kan.</i>	V, Wilder Laboratory
B.S. 1902. Physics: <i>Assistant in Laboratory.</i>		
Griggs, Leland	<i>Hanover, N. H.</i>	9 Pleasant St.
A.B. 1902. Zoölogy: <i>Assistant in Laboratory.</i>		
Lambert, Avery Eldorus	<i>Hanover, N. H.</i>	35 College St.
B.S. 1902. Biology: <i>Assistant in Laboratory.</i>		
Mitchell, William Hugh	<i>Gambier, O.</i>	15 E. Wheelock St.
A.B. 1898. History and Political Science.		
Young, Walter Stevens	<i>Londonderry, N. H.</i>	4 Wentworth St.
B.S. 1901. History: <i>Assistant.</i>		

GRADUATE DEPARTMENT OF PEDAGOGY

Carley, Neale Severance	<i>Shelburne Falls, Mass.</i>	25 S. Main St.
A.B. 1902. Greek, German.		
Farwell, Herman Waldo	<i>Keene, N. H.</i>	11 E. Wheelock St.
A.B. 1902. Mathematics, Chemistry.		

Moore, Frank Cochrane	<i>Goffstown, N. H.</i>	11 E. Wheelock St.
A.B. 1902. Latin.		
Morse, Kenneth Lee	<i>Hanover, N. H.</i>	25 W. Wheelock St.
A.B. 1902. Greek, Latin.		
Pattee, George Kynett	<i>Bristol, N. H.</i>	23 N. Main St.
A.B. 1902. Latin.		
Phelps, Clarence Lewis	<i>Quincy, Ill.</i>	41 S. Main St.
A.B. 1901. German, French.		
Winslow, Asa Irving	<i>Lakeville, Mass.</i>	8½ Hd. H.
A.B. 1902. History.		

NON-RESIDENT GRADUATE STUDENTS

Brown, George Henry	<i>Ithaca, N. Y.</i>	Cascadilla School
B.L. 1894. Romance Languages.		
Goodhue, Everett Walton	<i>Westminster West, Vt.</i>	
A.B. 1900. Sociology.		
Heald, Franklin Ernest	<i>Walpole, N. H.</i>	
B.S. 1897. Pedagogy.		
Hyatt, Willard Isaac	<i>Wayland, Mass.</i>	
A.B. 1899. History.		
Phillips, John Lewis	<i>Andover, Mass.</i>	Phillips Academy
A.B. 1894. Latin.		
Robinson, Charles Frederick	<i>Clinton, Conn.</i>	
A.B. 1890. Philosophy.		
Smith, Willis Orange	<i>Lancaster, N. H.</i>	
A.B. 1891. Latin.		
Stetson, Orlando Samuel, Jr.	<i>Syracuse, N. Y.</i>	
B.S. 1901. Mathematics.		
White, Carroll Henry	<i>Barre, Vt.</i>	
B.S. 1896. Philosophy.		

UNDERGRADUATES

SENIORS

Name	Residence	Room
Abdian, Gregory Nazareth	<i>Hadjin, Turkey</i>	13 H. H.
Avery, Maurice Hussey	<i>Nashua, N. H.</i>	10 S. H.
Baker, Fred W	<i>Lancaster, N. H.</i>	52 F. H.
Barrows, Samuel Fay	<i>Lowell, Mass.</i>	17 S. H.
Batchelder, Nathaniel Hayward	<i>Keene, N. H.</i>	19 Rn. H.
Bennett, Hamlin Perley	<i>Farmington, N. H.</i>	17 W. H.

STUDENTS

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Name	Residence	Room
Bergengren, Roy Frederick	<i>Lynn, Mass.</i>	18 C. H.
Brackett, Karl Starkey	<i>Westboro, Mass.</i>	35 The Hanover Inn
Bradley, David Emery, Jr.	<i>Evanston, Ill.</i>	4 Rn. H.
Brown, Ernest Lee	<i>Lebanon, N. H.</i>	17 T. H.
Brown, Marcus Richard	<i>Fall River, Mass.</i>	Davison Block
Brown, Phillip Lowell	<i>Amesbury, Mass.</i>	42 F. H.
Brown, Raymond Warren	<i>Bradford, Vt.</i>	29 S. H.
Bullard, Harold Ariel	<i>Lancaster, N. H.</i>	40 F. H.
Bunker, Charles Clinton	<i>Mercer, Me.</i>	7 Maple St.
Burbeck, Edward Kimball	<i>Manchester, N. H.</i>	41 S. Main St.
Burnham, Kingsley Allen	<i>Roxbury, Mass.</i>	9 Rn. H.
Chapin, William Sanders	<i>Litching, China</i>	4 B. H.
Chedel, Charles Brigham	<i>Pittsfield, Vt.</i>	12 Rd. H.
Cobb, Stanwood	<i>Newton Highlands, Mass.</i>	5 T. H.
Colton, Chauncey Corey	<i>Danvers, Mass.</i>	Φ Δ Θ House
Comstock, Harold Dearborn	<i>Chelsea, Vt.</i>	4 B. H.
Conner, William Hayden	<i>Haverhill, Mass.</i>	2 Rn. H.
Cornwell, William Eames	<i>Rome, N. Y.</i>	27 S. H.
Craig, Willis Parker	<i>Marlow, N. H.</i>	22 Col. H.
Creamer, James Allyn	<i>Fall River, Mass.</i>	10 W. South St.
Cresswell, James Baxter	<i>Roxbury, Mass.</i>	8 Col. H.
Crosse, Franklin	<i>Lewiston, Me.</i>	22 W. H.
Crowell, John	<i>Cleveland, O.</i>	25 S. Main St.
Cushing, Henry Dwight	<i>South Hingham, Mass.</i>	25 S. Main St.
Cutter, Victor Macomber	<i>Lowell, Mass.</i>	7 H. H.
Davis, Robert Meacham	<i>Newton, Mass.</i>	C. & G. House
Decatur, Arthur Garfield	<i>Rochester, N. H.</i>	Φ Δ Θ House
Delano, Henry Ward	<i>Marion, Mass.</i>	2 Rd. H.
Douglass, Douglass Burns	<i>Fort Wayne, Ind.</i>	Δ T Δ House
Drown, Frank Steel	<i>Boston, Mass.</i>	3 Rd. H.
Dunn, Morley Knight	<i>South Dartmouth, Mass.</i>	14 T. H.
Erwin, Clayton Lemuel	<i>Warren, N. H.</i>	29 S. H.
Farmer, Allen Brown	<i>Roxbury, Mass.</i>	C. & G. House
Follett, Herbert Champion	<i>Chicago, Ill.</i>	7 Rd. H.
French, Morton Bowles	<i>Athol, Mass.</i>	25 S. Main St.
Geraghty, James Michael	<i>Holyoke, Mass.</i>	51 F. H.
Grant, William West, Jr.	<i>Denver, Colo.</i>	C. & G. House
Groves, Ernest Rutherford	<i>Rochester, N. H.</i>	23 N. Main St.
Hadley, Chester Barton	<i>Arlington Heights, Mass.</i>	Δ T Δ House
Hale, Floyd Orlin	<i>Windsor, Vt.</i>	19 C. H.
Hall, Charles Taber	<i>Everett, Mass.</i>	Δ T Δ House
Hall, Forrest Joslin	<i>Keene, N. H.</i>	18 W. H.
Hancy, Lewis Henry	<i>Normal, Ill.</i>	2 Rn. H.
Hanlon, Arthur Edward	<i>Danvers, Mass.</i>	C. & G. House
Harley, George Washington	<i>Aurora, Ill.</i>	1 T. H.
Hartshorn, Willard LaMonte	<i>Evanston, Ill.</i>	C. & G. House

Name	Residence	Room
Haugan, Henry Alexander	<i>Chicago, Ill.</i>	C. & G. House
Hausmann, Daniel Andrew	<i>Albany, N. Y.</i>	▲ ▲ ♦ House
Hess, Harold Miner	<i>Evanston, Ill.</i>	7 Rd. H.
Hinckley, Daniel Roy	<i>West Lebanon, N. H.</i>	45 F. H.
Hoke, George Edward	<i>Herndon, Penn.</i>	C. & G. House
Howard, Preston Wilbar	<i>Brockton, Mass.</i>	♦ ▲ ♦ House
Howes, Clarence Gray	<i>Reading, Mass.</i>	20 S. Main St.
Jackson, Andrew	<i>Littleton, N. H.</i>	1 C. H.
Johnson, Charles Edward	<i>North Andover, Mass.</i>	23 W. H.
Kelley, Herbert Lester	<i>Franklin Falls, N. H.</i>	34 F. H.
Kenerson, Edward Hibbard	<i>Roxbury, Mass.</i>	9 S. H.
Kennedy, John Henry	<i>Holyoke, Mass.</i>	1 C. H.
Keyes, Ralph Preble	<i>Somerville, Mass.</i>	Davison Block
Kidger, Horace	<i>Everett, Mass.</i>	▲ T ▲ House
Kimball, Leigh Wadsworth	<i>Penn Yan, N. Y.</i>	1 Rn. H.
Lewers, Ralph Edward	<i>Brooklyn, N. Y.</i>	C. & G. House
Lovell, Aldis Willard	<i>Alstead, N. H.</i>	3 Rd. H.
Luce, Charles Lyman	<i>Nashua, N. H.</i>	K K K House
Lyman, Timothy	<i>West Brookfield, Mass.</i>	41 S. Main St.
McClary, Nelson Ford	<i>Malone, N. Y.</i>	K K K House
McElroy, John Hale	<i>Albany, N. Y.</i>	41 S. Main St.
McGowan, Robert	<i>Paterson, N. J.</i>	1 C. H.
MacLennan, John William	<i>Roxbury, Mass.</i>	1 D. H.
McManus, James William	<i>Lawrence, Mass.</i>	21 Col. H.
McVicar, Joseph Ambrose	<i>Auburndale, Mass.</i>	21 Col. H.
Mahoney, Jeremiah Francis	<i>North Andover, Mass.</i>	7 W. H.
Matteson, Byron Winfield	<i>New York, N. Y.</i>	35 College St.
Mechlin, Oscar Alexander	<i>Washington, D. C.</i>	♦ ▲ ♦ House
Morrison, Clarence Edwin	<i>Lawrence, Mass.</i>	24 Col. H.
Morrison, Charles Franklin	<i>Lawrence, Mass.</i>	24 Col. H.
Morse, Harold Marston	<i>Brooklyn, N. Y.</i>	15 Rd. H.
Mudge, Otis Pope	<i>Danvers Centre, Mass.</i>	6 College St.
Mullett, George Burnam	<i>Worcester, Mass.</i>	33 F. H.
Murphy, Sherman Arnold	<i>Albany, N. Y.</i>	10 C. H.
Neal, Cleland Richardson	<i>Amesbury, Mass.</i>	11 F. H.
Neal, Ralph Worrick	<i>Salem, Mass.</i>	1 Rn. H.
Osgood, Fred Wheeler	<i>Fitchburg, Mass.</i>	6 W. South St.
Palmer, Albert Rollins	<i>Brooklyn, N. Y.</i>	12 S. H.
Palmer, Harold Viall	<i>Reading, Mass.</i>	41 F. H.
Patch, George William	<i>Shelburne Falls, Mass.</i>	9 S. H.
Paul, Carroll	<i>Washington, D. C.</i>	♦ ▲ ♦ House
Perham, Frank Stuart	<i>Hanover, N. H.</i>	6 W. South St.
Pierpont, Henry Warner	<i>New Haven, Conn.</i>	36 N. Main St.
Place, Victor Morton	<i>Hanover, N. H.</i>	C. & G. House
Porter, Henry George	<i>Bartlett, N. H.</i>	5 Rd. H.
Pratt, Alton Gerard	<i>North Middleboro, Mass.</i>	18 C. H.

STUDENTS

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Name	Residence	Room
Reed, George Albert	<i>Barre, Vt.</i>	10 College St.
Rice, Winfield Lawrence	<i>Boothbay Harbor, Me.</i>	29 F. H.
Ropes, Howard Leon	<i>Methuen, Mass.</i>	Observatory
Rowe, Otis Arthur	<i>Gilford, N. H.</i>	8 D. H.
Ruppel, Henry Erich Kasemere	<i>Brooklyn, N. Y.</i>	28 Rn. H.
Safford, Henry Gates	<i>Quechee, Vt.</i>	35 College St.
Sayward, Henry Morton	<i>Ipswich, Mass.</i>	20 S. Main St.
Schlatter, Edward Bunker	<i>Brooklyn, N. Y.</i>	25 S. Main St.
Scudder, Harold Hungerford	<i>Washington, D. C.</i>	♠ Δ Θ House
Skinner, Azro Karl	<i>Keene, N. H.</i>	20 S. Main St.
Sleicher, George Ingalls	<i>Albany, N. Y.</i>	7 Col. H.
Smith, Albert Edward	<i>Albany, N. Y.</i>	Δ Δ ♠ House
Smith, Cyril Austin	<i>Middleboro, Mass.</i>	13 F. H.
Smith, Harold Elno	<i>Lebanon, N. H.</i>	22 S. H.
Smith, James Francis	<i>Wilder, Vt.</i>	33 F. H.
Smith, Orvil Weaver	<i>Lewiston, Me.</i>	22 W. H.
Smith, Sherman	<i>Omaha, Neb.</i>	35 College St.
Speare, Guy Edwin	<i>Randolph, Vt.</i>	17 S. Main St.
Stevens, William Lyman	<i>Concord, N. H.</i>	C. & G. House
Swan, Laurence Clarke	<i>Stoughton, Mass.</i>	15 Rd. H.
Thomas, Philip Williams	<i>Neath, Penn.</i>	8 T. H.
Thorpe, Jesse Leroy	<i>Lisbon, N. H.</i>	17 W. H.
Tobey, Walter Harvey	<i>Guilford, Me.</i>	Δ T Δ House
Wadham, John Pray	<i>West Newton, Mass.</i>	C. & G. House
Walther, Julius Bernhardt	<i>Woonsocket, R. I.</i>	20 S. Main St.
Warner, Southard Parker	<i>Washington, D. C.</i>	15 C. H.
Watson, William Harry	<i>Danvers, Mass.</i>	1 D. H.
Wentworth, Franklin Wesley	<i>Chelsea, Mass.</i>	46 F. H.
Wentworth, John Paul	<i>Sandwich, N. H.</i>	10 C. H.
Whelden, Perley Eaton	<i>Ludlow, Vt.</i>	12 S. H.
Whipple, Dana Bryden	<i>Lowell, Mass.</i>	17 S. H.
Williams, Lester Alonzo	<i>Hampstead, N. H.</i>	17 S. Main St.
Wilson, Earle Elwin	<i>Corinth, Vt.</i>	10 College St.
Woolverton, William Hand	<i>Washington, D. C.</i>	7 W. H.
Worthen, Carl Burpee	<i>Melrose, Mass.</i>	25 S. Main St.

JUNIORS

Austin, David Sands, 2d	<i>North Berwick, Me.</i>	9 T. H.
Bartlett, Edwin Rice	<i>Hanover, N. H.</i>	8 W. Wheelock St.
Barton, Ralph Martin	<i>Newport, N. H.</i>	52 S. Main St.
Bennett, Walter Scott	<i>Glens Falls, N. Y.</i>	12 Lebanon St.
Blair, Hugh	<i>Dorchester, Mass.</i>	2 S. H.
Blanchard, Phillips Staples	<i>Peacham, Vt.</i>	23 F. H.
Bolster, Arthur Stanley	<i>Nashua, N. H.</i>	25 S. Main St.
Bowles, Amasa	<i>Plymouth, N. H.</i>	22 H. A.

Name	Residence	Room
Boyle, Bernard Leo	<i>Manchester, Mass.</i>	19 F. H.
Brainerd, Joseph Amasa	<i>Troy, N. Y.</i>	25 S. Main St.
Brayton, Bascom Backus	<i>Hartford, N. Y.</i>	West Lebanon Road
Brennon, Elmer Garfield	<i>Lowell, Mass.</i>	17 Rd. H.
Brewer, Robert DuBois	<i>Brookline, Mass.</i>	21 N. Main St.
Brotherhood, James Stewart	<i>Brooklyn, N. Y.</i>	21 N. Main St.
Bullock, Matthew Washington	<i>Everett, Mass.</i>	2 T. H.
Burdett, Owen Long	<i>Wakefield, Mass.</i>	6 College St.
Callmann, Herbert	<i>New York, N. Y.</i>	27 F. H.
Carr, William Howes	<i>Concord, N. H.</i>	17 S. Main St.
Charron, Arthur Isaac	<i>Leominster, Mass.</i>	21 S. H.
Chase, Harry Woodbury	<i>Groveland, Mass.</i>	5 D. H.
Clary, Henry Charles	<i>Hallowell, Me.</i>	23 T. H.
Cobb, Percival Bartlett	<i>Newton Upper Falls, Mass.</i>	10 W. South St.
Colesworthy, Daniel Clement	<i>Hyde Park, Mass.</i>	6 S. H.
Collins, Francis Joseph	<i>Worcester, Mass.</i>	26 S. H.
Cronin, John Walter	<i>East Weymouth, Mass.</i>	14 W. H.
Cummings, Edward John	<i>Littleton, N. H.</i>	17 W. H.
Dailey, Michael Andrew	<i>North Easton, Mass.</i>	24 F. H.
Darrow, Paul Everett	<i>Chicago, Ill.</i>	20 Rn. H.
Davis, Charles Eleazer	<i>Tilton, N. H.</i>	13 Rd. H.
Doonan, John Francis	<i>Greenville, N. H.</i>	28 F. H.
Drew, Hedley Garland	<i>Chicago, Ill.</i>	44 College St.
Durgin, Linwood Story	<i>Lewiston, Me.</i>	21 N. Main St.
Edgerly, Ferdinand Bosher	<i>Manchester, N. H.</i>	7 Rn. H.
Farley, Carl Howard	<i>Nashua, N. H.</i>	16 C. H.
Fauteaux, Louis Dearborn	<i>Hanover, N. H.</i>	27 Allen St.
Favor, Paul Gordon	<i>Lowell, Mass.</i>	17 Rd. H.
Fellows, John Hibbard	<i>Tilton, N. H.</i>	13 Rd. H.
Fisher, Stuart-Dexter	<i>Woonsocket, R. I.</i>	25 F. H.
Fiske, Robert Chester	<i>Hyde Park, Mass.</i>	24 Rn. H.
Fletcher, John Storrs	<i>Chattanooga, Tenn.</i>	7 Rd. H.
Ford, David Emerson	<i>East Weymouth, Mass.</i>	15 T. H.
Foster, Amos Parker	<i>Keene, N. H.</i>	18 W. H.
Frost, Gordon Bennett	<i>Fort Ann, N. Y.</i>	24 W. H.
Gale, Arthur Pinkham	<i>Jackson, N. H.</i>	K K K House
Gray, William Renssalaer	<i>Aurora, Ill.</i>	29 Rn. H.
Hall, Henry Monroe	<i>Dover, N. H.</i>	24 Rn. H.
Ham, Harry Howard	<i>Dorchester, Mass.</i>	3 S. H.
Hamblin, Frank Samuel	<i>Somerville, Mass.</i>	16 C. H.
Hardy, Francis Hathaway	<i>Dover, N. H.</i>	3 S. H.
Hastings, Alfred Bryant	<i>Nashua, N. H.</i>	Δ T Δ House
Hatch, Albert Ruyter	<i>Greenland, N. H.</i>	35 F. H.
Hatch, Jared Platt	<i>Hanover, N. H.</i>	8 W. South St.
Herman, Earl Leslie	<i>Chicago, Ill.</i>	23 Rn. H.

STUDENTS

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Name	Residence	Room
Hill, Albert Lyon	<i>Derry, N. H.</i>	22 H. A.
Hills, Gay Elijah	<i>Swansey, N. H.</i>	7 F. H.
Hinman, Burritt Havilah	<i>North Stratford, N. H.</i>	25 S. Main St.
Hobbs, Don Purcell	<i>West Ossipee, N. H.</i>	K K K House
Holton, Harry Irving	<i>Chicago, Ill.</i>	19 C. H.
Jackson, Delbert Linscott	<i>Chelsea, Mass.</i>	21 N. Main St.
Johnson, Harry	<i>Middlefield, Mass.</i>	K K K House
Kimball, Arthur William	<i>East Fairfield, Me.</i>	23 T. H.
Kimball, Donald Gilman	<i>Manchester, N. H.</i>	4 C. H.
Kirker, John Henry, Jr.	<i>Albany, N. Y.</i>	A Δ ♦ House
Kneeland, William Aiken	<i>Roxbury, Mass.</i>	16 Rd. H.
Ladd, Percy Chandler	<i>Greenfield, Mass.</i>	7 H. H.
Lampee, Charles Irving	<i>Chelsea, Mass.</i>	21 N. Main St.
Laskey, Edward Philip	<i>Dover, N. H.</i>	7 C. H.
Leveroni, Louis Edward	<i>Keene, N. H.</i>	10 W. H.
Lewis, George Alexander	<i>Hingham, Mass.</i>	8 W. H.
Lockwood, Charles Mowry	<i>Hyde Park, Mass.</i>	6 S. H.
Logan, Donald Brigham	<i>Worcester, Mass.</i>	21 N. Main St.
MacKeen, William Duncan	<i>Peabody, Mass.</i>	4 W. Wheelock St.
McKennis, Herbert	<i>Albany, N. Y.</i>	39 F. H.
McKnight, Charles Francis	<i>Hiawatha, Kan.</i>	K K K House
MacLennan, Edgar Allen	<i>Roxbury, Mass.</i>	1 D. H.
Maguire, Peter Joseph	<i>South Hadley Falls, Mass.</i>	7a T. H.
Mahoney, William Henry	<i>Peabody, Mass.</i>	28 S. Main St.
Mangurian, Armen Steven	<i>Hadjin, Turkey</i>	13 H. H.
Marquess, John Miller	<i>Helena, Ark.</i>	15 H. H.
Marshall, Robert Eliot	<i>Boston, Mass.</i>	K K K House
Mathes, Maurice Everett	<i>Dover, N. H.</i>	7 C. H.
Maynard, James Tyler, Jr.	<i>Bellows Falls, Vt.</i>	12 Col. H.
Meyers, Jerome	<i>Albany, N. Y.</i>	6 College St.
Morse, Park Ashley	<i>Plymouth, N. H.</i>	3 B. H.
Moseley, Robert Brainard	<i>Hyde Park, Mass.</i>	16 F. H.
Mower, Penfield	<i>Rockford, Ill.</i>	44 F. H.
Muchemore, Harrie Langdon	<i>Portsmouth, N. H.</i>	22 S. H.
Nichols, Herbert Nathan Thomas	<i>Norwich, Vt.</i>	16 H. H.
Nolan, John Harrison	<i>Andover, Mass.</i>	Δ T Δ House
Norton, Daniel Capron	<i>New Britain, Conn.</i>	5 Rn. H.
Nutt, Harry Garfield	<i>Worcester, Mass.</i>	22 Rn. H.
Orcutt, Leslie Warren	<i>Winthrop, Mass.</i>	8 W. H.
Parker, Murray Nelson	<i>Littleton, N. H.</i>	16 Col. H.
Perkins, Wayne Arthur	<i>Newmarket, N. H.</i>	K K K House
Perry, Louis Irving	<i>North Billerica, Mass.</i>	17 Col. H.
Phelps, Olney Draper	<i>Warren, Mass.</i>	9 College St.
Pierce, Henry Kingsbury	<i>Oak Park, Ill.</i>	♦ Δ ♦ House
Pillsbury, Ralph William	<i>Boscawen, N. H.</i>	34 N. Main St.
Robinson, Edward Kilburn	<i>Roxbury, Mass.</i>	11 S. H.

Name	Residence	Room
Roby, Harrison George	<i>Whitewater, Wis.</i>	17 C. H.
Rock, Mathew, Jr.	<i>New York, N. Y.</i>	21 Rn. H.
Rolfe, Hayward Percival	<i>Newtonville, Mass.</i>	29 Rn. H.
Russell, Walter Hall	<i>Plymouth, N. H.</i>	17 Col. H.
Safford, Henry Barnard	<i>West Stafford, Conn.</i>	27 Col. H.
Sanborn, Bruce Walter	<i>St. Paul, Minn.</i>	6 Rn. H.
Sayles, Arthur Earle	<i>Uxbridge, Mass.</i>	17 Col. H.
Sewall, Arthur Eugene	<i>York Village, Me.</i>	K K K House
Sharpe, Howard Granville	<i>Washington, D. C.</i>	12 S. Main St.
Shaw, William Thomas	<i>Middleboro, Mass.</i>	♣ Δ Θ House
Slayton, William Harvey	<i>Lebanon, N. H.</i>	17 T. H.
Smith, Arthur Kendal	<i>West Boylston, Mass.</i>	43 F. H.
Smith, Roscoe Brinker	<i>Norridgewock, Me.</i>	6 A. H.
Stowell, Franklin Henry	<i>Worcester, Mass.</i>	6 Rd. H.
Sturtevant, Mills Gove	<i>Manchester, N. H.</i>	7 Rn. H.
Terrien, Albert Bernard	<i>Nashua, N. H.</i>	♣ Δ Θ House
Turner, Leigh Cilley	<i>Ross, O.</i>	35 College St.
Walker, James Christie	<i>Barre, Vt.</i>	23 Allen St.
Watson, John Henry, Jr.	<i>Montpelier, Vt.</i>	12 F. H.
Webster, Leon Winfield	<i>Barre, Vt.</i>	Δ T Δ House
Weston, Charles Joseph	<i>Windsor, Vt.</i>	9 W. H.
Whittemore, Wilfred Dolloff	<i>Ashton, R. I.</i>	12 F. H.
Willard, Ira Orlando	<i>Hanover, N. H.</i>	34 N. Main St.
Willis, Edward Simmons	<i>Warner, N. H.</i>	7 F. H.
Wiswall, Thomas Augustus	<i>Reading, Mass.</i>	19 F. H.
Witham, Myron Ellis	<i>Pigeon Cove, Mass.</i>	15 Col. H.
Withey, Morton Owen	<i>Meriden, Conn.</i>	25 F. H.
Woodbridge, Charles Kingsley	<i>Somerville, Mass.</i>	♣ Δ Θ House
Woods, Carl Fred	<i>W. Brookfield, Mass.</i>	K K K House
Woodward, Guy Eric	<i>Randolph, Vt.</i>	17 S. Main St.
Woodward, Henry Elliot	<i>Lexington, Mass.</i>	35 F. H.
Young, George Henry	<i>Alton, N. H.</i>	23 W. H.

SOPHOMORES

Adams, James Seth	<i>Bideford, Me.</i>	22 F. H.
Agry, George Cram	<i>Newton, Mass.</i>	17 Rn. H.
Alexander, James Stuart	<i>Newport, N. H.</i>	32 F. H.
Amey, Edward Everett	<i>Lancaster, N. H.</i>	42 F. H.
Archibald, Cecil	<i>Brockton, Mass.</i>	1 S. H.
Ashley, William H.	<i>Fall River, Mass.</i>	26 Rn. H.
Ashworth, John Edward	<i>Lebanon, N. H.</i>	6 W. Wheelock St.
Balph, Rowland Pollock	<i>Wilkesburg, Penn.</i>	1 S. H.
Barney, Winfield Supply	<i>Washington, N. H.</i>	8 College St.
Barton, Clarence LeRoy	<i>Marlboro, Mass.</i>	3 C. H.

STUDENTS

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Name	Residence	Room
Bass, Harold Bellamy	<i>Hyde Park, Mass.</i>	♣ Δ Θ House
Batchellor, Stillman	<i>Littleton, N. H.</i>	54 F. H.
Beckley, Frank Ernest	<i>Barre, Vt.</i>	5 W. H.
Bedell, Irving Washington	<i>Somersworth, N. H.</i>	7 Col. H.
Bell, John Howard	<i>West Derry, N. H.</i>	Davison Block
Besse, Stanley	<i>Newburyport, Mass.</i>	4 C. H.
Biggs, Vernon Alfred	<i>Chicago, Ill.</i>	23 S. H.
Billman, Howard Dwight	<i>Keene, N. H.</i>	20 W. H.
Blatner, William Davis	<i>Albany, N. Y.</i>	1 S. H.
Boyce, Henry Francis	<i>Danversport, Mass.</i>	49 F. H.
Brintnall, Henry Solva	<i>Chicago, Ill.</i>	2 D. H.
Brockway, John	<i>West Hartford, Vt.</i>	8 S. H.
Brooks, Charles Adams	<i>Claremont, N. H.</i>	21 T. H.
Brown, Dana Francis	<i>Fall River, Mass.</i>	5 S. H.
Brown, Frederick Howard	<i>West Boylston, Mass.</i>	12 W. H.
Brown, Robert Roswell	<i>Elgin, Ill.</i>	Bridgman Block
Brown, Roger Whittemore	<i>Concord, Mass.</i>	19 S. H.
Call, Frederick Arthur	<i>Clinton, Mass.</i>	11 D. H.
Campbell, Carroll Alfred	<i>So. Hadley Falls, Mass.</i>	3 B. H.
Card, Elmer Whittier	<i>Dover, N. H.</i>	9 College St.
Chamberlain, Frank Theron	<i>Sandy Creek, N. Y.</i>	6 W. Wheelock St.
Chamberlain, William Edward	<i>Medford, Mass.</i>	18 Col. H.
Chamberlin, Lafayette Ray	<i>Berlin, N. H.</i>	54 F. H.
Chase, Frederick	<i>Hanover, N. H.</i>	38 College St.
Chisholm, Everett Allen	<i>Manchester, N. H.</i>	16 T. H.
Clow, Arlington Ingalls	<i>Orange, Mass.</i>	3 Sargent St.
Collins, Ralph Waldo	<i>Kingston, N. H.</i>	9 F. H.
Colson, George Ralph	<i>North Billerica, Mass.</i>	18 T. H.
Conley, Walter Abbott	<i>Portland, Me.</i>	34 N. Main St.
Cornish, Solon Washington	<i>Carver, Mass.</i>	6 W. Wheelock St.
Cunningham, Shirley Beck	<i>Wellesley Hills, Mass.</i>	4 Rd. H.
Day, Edmund Ezra	<i>Worcester, Mass.</i>	6 Rd. H.
Dennison, Harry Garfield	<i>Somersworth, N. H.</i>	10 T. H.
Dillon, Walter Sidney	<i>Fitchburg, Mass.</i>	10 W. South St.
Donnelly, James Corcoran	<i>Worcester, Mass.</i>	43 F. H.
Dorothy, Wayland Francis	<i>Enfield, N. H.</i>	18 T. H.
Dunlap, John Hoffman	<i>East Concord, N. H.</i>	1 W. H.
Eichenauer, Charles Frederick	<i>Quincy, Ill.</i>	11 D. H.
Ela, Arthur John	<i>Lebanon, N. H.</i>	2 W. H.
Elliott, Herford Naylor	<i>Lowell, Mass.</i>	14 Rn. H.
Emery, Walter Palmer	<i>Auburn, N. H.</i>	♣ Δ Θ House
English, Frank	<i>Wareham, Mass.</i>	10 W. South St.
Estes, Charles Edward	<i>Somersworth, N. H.</i>	Δ T Δ House
Falconer, Robert Crawford	<i>Hamilton, O.</i>	27 Rn. H.
Fall, Gilbert Haven	<i>Somersworth, N. H.</i>	10 T. H.
Fleming, Harris Willard	<i>Natick, Mass.</i>	14 Rn. H.

Name	Residence	Room
French, Ferdinand	<i>Pittsfield, N. H.</i>	15 S. Main St.
French, Robert Allan	<i>Nashua, N. H.</i>	21 C. H.
Fromm, Nelson Kaufman	<i>Albany, N. Y.</i>	3 D. H.
Frost, Eliot Park	<i>Rutland, Mass.</i>	7b T. H.
Frothingham, Randolph Irving	<i>Scranton, Penn.</i>	18 Rd. H.
Furfey, John Hugh	<i>Brookline, Mass.</i>	16 T. H.
Gage, Daniel Nathan	<i>Andover, Mass.</i>	8 Hd. H.
Gates, Don Shepard	<i>Bakersfield, Va.</i>	1 W. H.
Gilbert, Edgar	<i>Lawrence, Mass.</i>	8 T. H.
Gilbert, Oscar Bowen	<i>Woonsocket, R. I.</i>	Davison Block
Goodrich, Charles Francis	<i>Manchester, N. H.</i>	15 W. H.
Gormly, Clarence Wallace	<i>Troy, N. Y.</i>	21 N. Main St.
Graves, Allen Bouthrod	<i>Lynchburg, Va.</i>	2 T. H.
Grover, Chester Abbott	<i>Nahant, Mass.</i>	2 B. H.
Grover, Louis Clayton	<i>Dana, Mass.</i>	28 F. H.
Hale, Fletcher	<i>Dorchester, Mass.</i>	23 C. H.
Halleck, Harry Gerald	<i>Chicago, Ill.</i>	15 S. H.
Hamblen, Clarence Bryant	<i>East Lexington, Mass.</i>	2 W. H.
Harding, Robert Hatch	<i>Newcastle, N. H.</i>	6 F. H.
Harwood, Fred Eugene	<i>Athol Centre, Mass.</i>	8 Rd. H.
Haskell, Harold Morton	<i>Claremont, N. H.</i>	20 T. H.
Hatch, Fletcher Ames	<i>Hanover, Mass.</i>	14 Rd. H.
Hatch, Thomas Odiorne	<i>Somersworth, N. H.</i>	22 F. H.
Hawley, Walter Earl	<i>Norwich, Vt.</i>	17 S. Main St.
Hazen, Edwin Humphrey	<i>Middletown, Conn.</i>	1 W. H.
Hersam, George Alexander	<i>Stoneham, Mass.</i>	5 D. H.
Hills, Clarence Clare	<i>Columbus, O.</i>	2 D. H.
Hobart, Henry Morgan	<i>Brooklyn, N. Y.</i>	21 T. H.
Hodgman, Charles David	<i>Milford, N. H.</i>	10 D. H.
Holton, Ray Clifford	<i>Chicago, Ill.</i>	21 C. H.
Jeffreys, Arthur Henry	<i>Chelsea, Mass.</i>	2 T. H.
Keady, John Thomas	<i>Wakefield, Mass.</i>	14 Rd. H.
Kelley, Carl Hall	<i>Haverhill, Mass.</i>	9 Col. H.
Kelley, Charles Jenkins	<i>Harwichport, Mass.</i>	11 W. H.
Kingsbury, Joseph Lyman	<i>Clifton Springs, N. Y.</i>	15 Rn. H.
Knibbs, John William, Jr.	<i>Worcester, Mass.</i>	7 D. H.
Knight, Howard Vivian	<i>Dorchester, Mass.</i>	Bridgman Block
Laing, John Albert	<i>Albany, N. Y.</i>	3 D. H.
Lander, Ralph Clinton	<i>Naugatuck, Conn.</i>	12 Rd. H.
Lane, Harold Francis	<i>Chicago, Ill.</i>	4 W. H.
Lawrence, Chester Myron	<i>Lexington, Mass.</i>	8 S. H.
Leveroni, Nathaniel	<i>Keene, N. H.</i>	10 W. H.
Lillard, Walter Huston	<i>Chicago, Ill.</i>	Bridgman Block
Loder, Halsey Beach	<i>Thetford, Vt.</i>	♠ Δ ⊙ House
Luce, Thomas Sunham, Jr.	<i>Nashua, N. H.</i>	5 S. H.
McCabe, Frank Joseph	<i>Randolph, Mass.</i>	5 College St.

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Name	Residence	Room
McClary, Arthur Eugene	<i>Malone, N. Y.</i>	K K K House
McFeeters, William Renssellaer	<i>Enosburg Falls, Vt.</i>	35 N. Main St.
McGrath, Owen Augustine	<i>So. Boston, Mass.</i>	40 S. Main St.
MacLean, Hugh Whitford	<i>Evanston, Ill.</i>	13 F. H.
MacMillan, Andrew Louis, Jr.	<i>Hanover, Mass.</i>	2 S. H.
Maley, John Henry	<i>Newport, N. H.</i>	34 N. Main St.
Marchand, George Morgan	<i>Quincy, Ill.</i>	23 N. Main St.
May, Walter Milton	<i>West Concord, Vt.</i>	4 S. H.
Maynard, Alexander Rockwood	<i>Nashua, N. H.</i>	41 S. Main St.
Melvin, Albert Thomas	<i>Derry, N. H.</i>	Δ T Δ House
Merriam, James Robert	<i>Conneaut, O.</i>	4 Rn. H.
Merrill, Joseph Henry	<i>Danvers, Mass.</i>	20 H. H.
Messer, Hope Richard	<i>Claremont, N. H.</i>	20 T. H.
Moore, Chester Newell	<i>Worcester, Mass.</i>	4 Rd. H.
Mulally, James Henry	<i>Danversport, Mass.</i>	49 F. H.
Musgrove, Eugene Richard	<i>Bristol, N. H.</i>	17 S. Main St.
Neely, John Hinsdale	<i>Evanston, Ill.</i>	14 S. H.
Newdick, Edwin Walter	<i>Arlington, Mass.</i>	19 S. H.
Norcross, Winfield Irvin	<i>Auburn, Me.</i>	14 F. H.
Norton, Henry Kittredge	<i>Chicago, Ill.</i>	K K K House
Nourse, Walter Lorenzo	<i>Hudson, Mass.</i>	17 S. Main St.
Parkinson, Royal	<i>Waltham, Mass.</i>	30 H. A.
Patteson, Griesser Winston	<i>Cleveland, O.</i>	Davison Block
Perry, Henry Chester	<i>Middleboro, Mass.</i>	8 College St.
Peyser, Harry Wentworth	<i>Portsmouth, N. H.</i>	8 F. H.
Pierce, Clifford Wellington	<i>Lexington, Mass.</i>	20 S. H.
Platt, Theodorus Badger	<i>Poultney, Vt.</i>	41 S. Main St.
Post, John Dwight	<i>Torrington, Conn.</i>	23 F. H.
Post, John Ransom	<i>Conneaut, O.</i>	16 Rd. H.
Preston, Harry Boynton	<i>Henniker, N. H.</i>	14 S. H.
Priest, Frederick Franklin	<i>Holyoke, Mass.</i>	4 School St.
Proctor, George Newton, Jr.	<i>Fitchburg, Mass.</i>	11 Rn. H.
Putnam, George William	<i>Nashua, N. H.</i>	10 D. H.
Reeve, Ralph Walker	<i>Somersworth, N. H.</i>	15 S. H.
Reid, George Stickle	<i>Newton, Mass.</i>	10 W. South St.
Richardson, Edward Curtis	<i>Dover, N. H.</i>	Bridgman Block
Rickards, Harry Scotte	<i>Woonsocket, R. I.</i>	Davison Block
Ricker, Charles Henry	<i>Kings Bridge, N. Y.</i>	2 Col. H.
Ricker, George Roscoe	<i>Biddeford, Me.</i>	23 N. Main St.
Ripley, John Barrett	<i>Troy, N. H.</i>	48 F. H.
Rix, John Burton	<i>Utica, N. Y.</i>	Bridgman Block
Rogers, Walter Mulliken	<i>Quincy, N. H.</i>	3 B. H.
Rollins, Dillwyn Sidney	<i>Newburyport, Mass.</i>	17 C. H.
Root, Frederick James	<i>Chicago, Ill.</i>	38 F. H.
Root, Raymond Richmond	<i>Georgetown, Mass.</i>	Δ Δ φ House
Russell, Verney Warren	<i>Norwich, Vt.</i>	28 H. A.

Name	Residence	Room
Sanborn, Curtis Tilton	<i>Byfield, Mass.</i>	8 College St.
Sanderson, John Franklin	<i>North Bridgton, Me.</i>	9 Rd. H.
Scales, George Levi	<i>Exeter, N. H.</i>	9 Rd. H.
Sexton, Ralph Emerson	<i>Nashua, N. H.</i>	41 S. Main St.
Sheehan, Dennis Edward	<i>Middleboro, Mass.</i>	2 B. H.
Sibley, Edward Napoleon	<i>Ashburnham, Mass.</i>	8 D. H.
Silha, Emil Albert	<i>Chicago, Ill.</i>	40 S. Main St.
Small, Walter Blaisdell	<i>Chelsea, Mass.</i>	28 H. A.
Small, Walter Garfield	<i>Whitefield, N. H.</i>	13 W. H.
Smith, Allen Copeland	<i>Lexington, Mass.</i>	20 S. H.
Smith, Chester Philbrook	<i>Norridgewock, Me.</i>	6 A. H.
Smith, Howard Ernest	<i>Newburyport, Mass.</i>	7 D. H.
Smith, Leon Burdett	<i>West Derry, N. H.</i>	40 S. Main St.
Stevenson, Norman	<i>Roxbury, Mass.</i>	9 C. H.
Stone, Fred	<i>Windsor, Vt.</i>	23 Rn. H.
Stone, James Hammond	<i>Concord, N. H.</i>	9 College St.
Streeter, Thomas Winthrop	<i>Concord, N. H.</i>	13 W. Wheelock St.
Studwell, Lester Wellington	<i>Port Chester, N. Y.</i>	5 Rn. H.
Sylvester, Charles Bradford	<i>Groveland, Mass.</i>	10 D. H.
Taplin, Harry Woolson	<i>Montpelier, Vt.</i>	53 F. H.
Thrall, Henry Dutton	<i>Pepperell, Mass.</i>	7b T. H.
Tubbs, Charles Myron	<i>Gardner, Mass.</i>	23 Col. H.
Tuck, John	<i>Biddeford, Me.</i>	17 Rn. H.
Uniac, Thomas Vincent	<i>Randolph, Mass.</i>	8 Col. H.
Vail, LeRoy Benjamin	<i>Brooklyn, N. Y.</i>	21 N. Main St.
Vaughan, James Albert	<i>Portland, Me.</i>	22 Col. H.
Wallis, Louis Theodore	<i>Jamaica Plain, Mass.</i>	2 S. H.
Walsh, Frederick William	<i>Somersworth, N. H.</i>	22 T. H.
Ward, Harold Edward	<i>Kennebunk, Me.</i>	5 F. H.
Watson, Harry Lyman	<i>Manchester, N. H.</i>	15 W. H.
Weston, Frederick Sampson	<i>Middleboro, Mass.</i>	27 H. A.
Weyburn, Samuel Lyon	<i>Scranton, Penn.</i>	18 Rd. H.
White, Ernest Miller	<i>Portland, Me.</i>	16 Rn. H.
Whittier, John Boland	<i>Portland, Me.</i>	10 W. South St.
Wilkins, Samuel Henry, Jr.	<i>Somerville, Mass.</i>	44 College St.
Williams, Walter Longworth	<i>Brooklyn, N. Y.</i>	9 C. H.
Wilmot, Ross Hibbard	<i>Littleton, N. H.</i>	13 W. H.
Wilton, Richard Clive	<i>East Derry, N. H.</i>	8 College St.
Wood, Bourne	<i>Middleboro, Mass.</i>	32 F. H.
Worthen, Ernest Nelson	<i>Barre, Vt.</i>	5 W. H.
Wylie, Arthur Webber Perry	<i>Chelsea, Mass.</i>	47 F. H.

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Name	Residence	Room
Adriance, Robert Irving	<i>Winchester, Mass.</i>	10 Rd. H.
Alley, George Augustus	<i>Windham, N. H.</i>	15 S. Main St.
Alling, Marshall Louis	<i>Kensington, Conn.</i>	3 College St.
Ayers, Augustine Haines	<i>Concord, N. H.</i>	27 F. H.
Bailey, Dearborn	<i>Dedham, Mass.</i>	11 C. H.
Baker, Robert Mills	<i>Worcester, Mass.</i>	4 S. H.
Bankart, George Norman	<i>Rochester, N. H.</i>	8 H. H.
Barker, Thomas	<i>Chicago, Ill.</i>	24 T. H.
Beale, Luther Magoun	<i>Wickford, R. I.</i>	5 H. H.
Bell, William Thomas	<i>Newmarket, N. H.</i>	31 F. H.
Bishop, Crawford Morrison	<i>Baltimore, Md.</i>	10 H. H.
Blatherwick, James Albert	<i>Denver, Colo.</i>	7 S. Park St.
Blood, Robert McCutchins	<i>Charlestown, Mass.</i>	11 C. H.
Bodwell, William Mottimer	<i>Solon, Me.</i>	14 F. H.
Bourne, Charles Luther	<i>Auburndale, Mass.</i>	9 W. H.
Boynton, George William	<i>Hillsboro Bridge, N. H.</i>	16 W. H.
Boynton, Herbert Leslie	<i>Haverhill, Mass.</i>	1 B. H.
Brackett, Colborn Barrell	<i>Greenland, N. H.</i>	6 F. H.
Brock, Maynor Davis	<i>North Conway, N. H.</i>	22 T. H.
Brooks, Addison Gott	<i>Gloucester, Mass.</i>	22 C. H.
Brown, Thurmond	<i>Chicago, Ill.</i>	16 Rn. H.
Brown, William Hyde	<i>Cleveland, O.</i>	3 School St.
Buckbee, Neil Stanley	<i>French Mountain, N. Y.</i>	24 W. H.
Burnie, Arthur Newell	<i>Biddeford, Me.</i>	21 F. H.
Burtch, John Jay	<i>Chicago, Ill.</i>	24 S. H.
Butterfield, Ray Evan	<i>Perkinsville, Vt.</i>	2 Occom Ridge
Callison, Albert Edward	<i>Lawrence, Mass.</i>	30 F. H.
Carr, Daniel	<i>North Haverhill, N. H.</i>	21 W. H.
Chapin, Arthur Wood	<i>Boston, Mass.</i>	37 F. H.
Chase, Joseph Theodore	<i>Holyoke, Mass.</i>	19 Rd. H.
Chellis, Converse Alvah	<i>Meriden, N. H.</i>	19 Allen St.
Cheney, Henry Howard	<i>Newtonville, Mass.</i>	12 Rn. H.
Chidley, James Howard	<i>Cresswell, Ontario</i>	19 T. H.
Childs, Francis Lane	<i>Henniker, N. H.</i>	11 E. Wheelock St.
Clark, Allan Chester	<i>Centre Harbor, N. H.</i>	4 School St.
Clark, Edward Everett	<i>Pittsfield, N. H.</i>	15 S. Main St.
Clough, William Plummer	<i>New London, N. H.</i>	1 Rd. H.
Coburn, Harry Warner, Jr.	<i>Lowell, Mass.</i>	20 F. H.
Cochran, Albert Clarendon	<i>Andover, N. H.</i>	50 F. H.
Cogswell, Eliot Sanborn	<i>Stratford, Conn.</i>	17 H. H.
Comeau, Alphy Joseph	<i>Durham, N. H.</i>	41 S. Main St.
Connell, Thomas Michael	<i>East Weymouth, Mass.</i>	8 W. H.
Cooke, Henry Elentheros, Jr.	<i>Warren, O.</i>	25 Rn. H.

Name	Residence	Room
Cooke, Randall Bradford	<i>East Whitman, Mass.</i>	20 Col. H.
Cragin, Arthur Mantor	<i>Kingston, N. Y.</i>	11 E. Wheelock St.
Crane, Charles Edward	<i>Ludlow, Vt.</i>	5 Col. H.
Cromwell, John Wesley, Jr.	<i>Washington, D. C.</i>	2 T. H.
Cummings, Herbert Wiley	<i>Baldwinsville, Mass.</i>	13 E. Wheelock St.
Cushing, Joseph	<i>Lakeport, N. H.</i>	21 H. H.
Cushing Stephen Salisbury	<i>Lakeport, N. H.</i>	21 H. H.
Dakin, Walter	<i>Elgin, Ill.</i>	1 F. H.
Davis, Howard Clark	<i>Westerly, R. I.</i>	18 S. H.
Denison, Roy Erskine	<i>Pittsfield, N. H.</i>	15 S. Main St.
DeNyse, Percy Lott	<i>Brooklyn, N. Y.</i>	10 Rn. H.
Donovan, William Emery	<i>Alfred, Me.</i>	3 Col. H.
Downey, John Eustis	<i>Newtonville, Mass.</i>	7 D. H.
Dunn, Hubert Randall	<i>Woonsocket, R. I.</i>	14 T. H.
Dwyer, Louis Richard	<i>Bradford, Mass.</i>	5 W. South St.
Eastman, Frank Herman	<i>Fort Ann, N. Y.</i>	12 Lebanon St.
Evans, Robie Mason	<i>Fryeburg, Me.</i>	9 College St.
Everett, Chester McKenzie	<i>Champlain, N. Y.</i>	5 Rd. H.
Farrington, Jeremiah Arthur	<i>Portsmouth, N. H.</i>	8 F. H.
Felt, Paul Revere	<i>Hillsboro Bridge, N. H.</i>	16 W. H.
Fish, Harold Dufur	<i>South Royalton, Vt.</i>	23 N. Main St.
Fitts, Ralph Corydon	<i>Manchester, N. H.</i>	46 College St.
Flanagan, Joseph Anthony	<i>Charlestown, Mass.</i>	10 W. South St.
Ford, Trall Edward	<i>Chicago, Ill.</i>	12 H. H.
Fox, William Henry	<i>Clinton, Mass.</i>	5 Col. H.
Frazier, Lyman Barney	<i>Lynn, Mass.</i>	2 Col. H.
French, Louis Richard	<i>Roxbury, Mass.</i>	10 W. South St.
French, Edward Sanborn	<i>Somerville, Mass.</i>	14 C. H.
Gage, Jesse Witherspoon	<i>Manchester, N. H.</i>	9 College St.
Gallagher, Morrill Allen	<i>Roxbury, Mass.</i>	16 S. H.
Gardiner, William Henry, Jr.	<i>Chicago, Ill.</i>	24 S. H.
Gerould, Leonard Stinson	<i>Hollis, N. H.</i>	11 E. Wheelock St.
Gibb, Oscar Edward	<i>Barton Landing, Vt.</i>	5 College St.
Gilman, John Taylor	<i>Exeter, N. H.</i>	A Δ ♦ House
Glaze, Ralph	<i>Boulder, Colo.</i>	7 S. Park St.
Gleason, William Fogarty	<i>Norwich, Conn.</i>	5 W. South St.
Gordon, Thurlow Marshall	<i>Methuen, Mass.</i>	3 T. H.
Gove, Dana Ballantyne	<i>East Boston, Mass.</i>	12 C. H.
Gray, Clarence Tebbets	<i>Newport, Vt.</i>	30 Rn. H.
Greenwood, Ivan Anderson	<i>Cleveland, O.</i>	3 School St.
Griffin, James Thomas, Jr.	<i>So. Hadley Falls, Mass.</i>	5 College St.
Guyer, Foster Erwin	<i>Hyannis, Mass.</i>	4 College St.
Hackney, Raymond	<i>Chicago, Ill.</i>	12 Rn. H.
Hagberg, Paul Tobias	<i>Worcester, Mass.</i>	34 N. Main St.
Hale, Glenn Joel	<i>Windsor, Vt.</i>	13 S. H.
Hancock, Walter Aiken	<i>Franklin Falls, N. H.</i>	19 Col. H.

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Name	Residence	Room
Hartmann, Max	<i>Dorchester, Mass.</i>	20 C. H.
Harvey, James Frederic	<i>Rock, Mass.</i>	15 S. Main St.
Haslam, John William	<i>Providence, R. I.</i>	6 D. H.
Hastings, Thomas Nelson, Jr.	<i>Walpole, N. H.</i>	1 Col. H.
Hatch, Daniel Phillips	<i>Everett, Mass.</i>	1 T. H.
Hazen, Conrad Philip	<i>Norwich, Vt.</i>	Norwich, Vt.
Hazen, Freeman Brackett	<i>Manchester, N. H.</i>	12 D. H.
Herman, Raymond Elmer	<i>Chicago, Ill.</i>	1 F. H.
Herr, Edward Albert	<i>Waterbury, Conn.</i>	8 College St.
Hibbard, Hazen Kimball	<i>Woodsville, N. H.</i>	40 S. Main St.
Holmes, Arthur Dunham	<i>Walpole, N. H.</i>	21 W. H.
Holmes, Percival Jerauld	<i>Somerville, Mass.</i>	26 H. A.
Howe, Willis Dearborn	<i>Woodsville, N. H.</i>	9 College St.
Hoyt, Archibald Ray	<i>Littleton, N. H.</i>	8 College St.
Huey, Floyd	<i>Tyrone, N. Y.</i>	34 N. Main St.
Hussey, George Richard	<i>Salem, Mass.</i>	22 C. H.
Hutchinson, Jonas, Jr.	<i>Chicago, Ill.</i>	Bridgman Block
Jackson, Harry Bingham	<i>Littleton, N. H.</i>	1 C. H.
Jones, Fred Andros	<i>Nashua, N. H.</i>	8 Rn. H.
Kelley, Arthur Olin	<i>Franklin Falls, N. H.</i>	34 F. H.
Kelley, Eric Philbrook	<i>Amesbury, Mass.</i>	13 T. H.
Kelley, Frank Howard	<i>Roxbury, Mass.</i>	24 H. A.
Kendall, Henry Sibley	<i>LaGrange, Ill.</i>	20 F. H.
Kenerson, John Bodge	<i>Boston, Mass.</i>	9 S. H.
Kennedy, Charles Ferguson	<i>Chicago, Ill.</i>	18 H. H.
Ketcham, Henry Chapin	<i>Indianapolis, Ind.</i>	13 W. Wheelock St.
Kingsbury, John Howard	<i>Albany, N. Y.</i>	24 T. H.
Kingsley, Ralph Hutchings	<i>Bar Harbor, Me.</i>	30 Rn. H.
Kraft, Charles Herbert	<i>Brooklyn, N. Y.</i>	2 S. H.
Ladd, Henry Benjamin	<i>North Belfast, Me.</i>	5 College St.
Laton, George Peavey	<i>Nashua, N. H.</i>	8 Rn. H.
LeGro, John Alvah	<i>Somersworth, N. H.</i>	37 F. H.
Libby, Arthur Frederic	<i>Putnam, Conn.</i>	12 H. H.
Lindsay, Henry Thomas	<i>Fox Lake, Wis.</i>	48 College St.
Locke, William Maynard	<i>Winchendon, Mass.</i>	11 E. Wheelock St.
Loff, George	<i>Worcester, Mass.</i>	34 N. Main St.
Luck, Charles Arthur	<i>Weiser, Idaho</i>	2 Rd. H.
Lyford, Henry Mellish	<i>Kingston, N. H.</i>	15 S. Main St.
McCullar, Harvey Sumner	<i>Cambridge, Mass.</i>	4 Col. H.
McFarland, Henry Webster	<i>Concord, N. H.</i>	8 C. H.
McGillis, Edward Leander	<i>Marinette, Wis.</i>	48 College St.
McGrail, William Phipps	<i>Worcester, Mass.</i>	15 F. H.
McGrath, Ray Percy	<i>Lisbon, N. H.</i>	12 T. H.
McIntire, Donald Cahoon	<i>Littleton, N. H.</i>	3 F. H.
McMore, Harry Allen	<i>Fort Ann, N. Y.</i>	24 W. H.
Main, Charles Reed	<i>Winchester, Mass.</i>	10 Rd. H.

Name	Residence	Room
Main, David John	<i>Denver, Colo.</i>	7 S. Park St.
Marden, Edgar Avery	<i>Stoughton, Mass.</i>	5 H. H.
Marshall, John Knox	<i>Brookline, Mass.</i>	18 Rn. H.
Martin, Leigh Shepherd	<i>Rockford, Ill.</i>	2 S. H.
Mathes, Benjamin William	<i>Newmarket, N. H.</i>	31 F. H.
Merchant, Roy Richardson	<i>West Newton, Mass.</i>	3 Rn. H.
Meservey, Arthur Bond	<i>Ashland, N. H.</i>	11 Rd. H.
Milham, Charles Gilbert	<i>Brooklyn, N. Y.</i>	6 C. H.
Montgomery, Wilder Percival	<i>Washington, D. C.</i>	10 F. H.
Moore, William Herbert	<i>Peterboro, N. H.</i>	11 W. H.
Morse, Frank Thomas	<i>Orange, Mass.</i>	3 Sargent St.
Myers, Malcolm Hulburt	<i>Newton Centre, Mass.</i>	3 C. H.
Neal, Erlon Hugh	<i>Rochester, N. H.</i>	8 H. H.
Nuelle, Joseph Henry	<i>Chicago, Ill.</i>	18 H. H.
Oakford, Edwin Lines	<i>Peoria, Ill.</i>	♣ Δ Θ House
O'Brien, Michael Gilbert	<i>Lawrence, Mass.</i>	30 F. H.
Owen, Roy Mansfield	<i>Chicago, Ill.</i>	50 F. H.
Page, William Ray	<i>Shiloh, O.</i>	20 W. H.
Parker, Charles Stevens	<i>West Newton, Mass.</i>	16 Col. H.
Parker, Fred Foster	<i>West Swansea, N. H.</i>	2 C. H.
Parrish, Alan Jay	<i>Paris, Ill.</i>	18 S. H.
Pattee, Stephen Ward	<i>Manchester, N. H.</i>	12 D. H.
Patten, Harold Taylor	<i>Bernardston, Mass.</i>	12 W. H.
Paul, Phillip Batcheller	<i>Boston, Mass.</i>	20 C. H.
Pearson, Edward Nathan	<i>Concord, N. H.</i>	8 C. H.
Peirce, Joshua Winslow	<i>Portsmouth, N. H.</i>	15 C. H.
Perry, Clifford Omera	<i>Danvers, Mass.</i>	11 H. H.
Pierce, Charles Alfred	<i>Suffield, Conn.</i>	19 Allen St.
Porritt, Charles Edgar	<i>Fargo, N. D.</i>	13 C. H.
Powers, Walter	<i>Hyde Park, Mass.</i>	13 S. H.
Pratt, Elon Graham	<i>Brooklyn, N. Y.</i>	6 C. H.
Rainie, Herbert Williamson	<i>Concord, N. H.</i>	9 D. H.
Ransom, Daniel Parke	<i>Milford, Conn.</i>	17 H. H.
Redlon, Nathan Carroll	<i>Portland, Me.</i>	6 Col. H.
Redman, Edward Blanchard	<i>Chelmsford, Mass.</i>	29 H. A.
Reilly, Thomas Edward	<i>Randolph, Mass.</i>	48 S. Main St.
Richards, John Eliot	<i>Perley, Minn.</i>	13 C. H.
Richardson, Robert Wallace	<i>Lisbon, N. H.</i>	12 T. H.
Ritchie, James John	<i>West Barnet, Vt.</i>	26 F. H.
Rugg, Harold Goddard	<i>Proctorsville, Vt.</i>	1 W. H.
Russ, Charles Alonzo	<i>Somerville, Mass.</i>	14 C. H.
Russell, Louis Webster	<i>Plymouth, N. H.</i>	18 F. H.
Russell, Norman	<i>Newburyport, Mass.</i>	2 F. H.
Scott, Ralph Wentworth	<i>Newton Centre, Mass.</i>	3 Rn. H.
Scribner, Frederick Parker	<i>Raymond, N. H.</i>	4 F. H.
Seager, George James	<i>Milo Centre, N. Y.</i>	34 N. Main St.
Shepard, Charles Francis	<i>Somerville, Mass.</i>	5 W. South St.

STUDENTS

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Name	Residence	Room
Sickman, Guy Leonard	<i>Holyoke, Mass.</i>	19 Rd. H.
Slack, John Phelps	<i>Bethel, Conn.</i>	23 N. Main St.
Sleeper, Finlay Page	<i>North Haverhill, N. H.</i>	15 F. H.
Smead, Ralph Amsden	<i>Greenfield, Mass.</i>	17 F. H.
Smith, Cary Fred	<i>Cabot, Vt.</i>	26 F. H.
Smith, Eugene Greeley	<i>South Acton, Mass.</i>	21 S. H.
Smith, Ephraim John	<i>Newport, Vt.</i>	15 Rn. H.
Smith, Harold Earle	<i>Athol, Mass.</i>	8 Rd. H.
Smith, Joseph Thomas	<i>E. Weymouth, Mass.</i>	14 W. H.
Smith, Pierre Journeay	<i>Upper Montclair, N. J.</i>	5 C. H.
Smith, Watson Burchard	<i>Omaha, Neb.</i>	2 C. H.
Souter, Clyde Douglas	<i>Kearny, N. J.</i>	5 A. H.
Southworth, Chester Dean	<i>Somerville, Mass.</i>	1 Rd. H.
Spencer, Bertrand Edwin	<i>Wilder, Vt.</i>	10 H. H.
Stanton, Harold Bacon	<i>Newton, Mass.</i>	9 College St.
St. Clair, Earle Jason	<i>Plymouth, N. H.</i>	18 F. H.
Stone, Albert Henry	<i>Gardner, Mass.</i>	35 College St.
Story, Joseph Marion	<i>Somerville, Mass.</i>	5 W. South St.
Swasey, George Leroy	<i>Concord, N. H.</i>	9 D. H.
Tarr, Alphonso Remby	<i>Magnolia, Mass.</i>	23 H. A.
Terrien, George Dominick	<i>Nashua, N. H.</i>	6 W. South St.
Thomas, David	<i>Neath, Penn.</i>	8 T. H.
Thompson, Ernest Alvin	<i>Cambridge, Mass.</i>	4 Col. H.
Thompson, Ralph Joseph	<i>Hyde Park, Mass.</i>	20 Col. H.
Tourtellott, Clarence William	<i>Danvers, Mass.</i>	11 H. H.
Varick, Remsen	<i>Manchester, N. H.</i>	25 Rn. H.
Vilas, Maynard	<i>New York, N. Y.</i>	18 Col. H.
Wales, Charles Raymond	<i>Minneapolis, Minn.</i>	21 Allen St.
Wallace, Robert Burns	<i>Milford, N. H.</i>	11 E. Wheelock St.
Wardwell, Robert Blaney, Jr.	<i>Swampscott, Mass.</i>	12 C. H.
Waring, Dwight Stowe	<i>Fall River, Mass.</i>	10 W. South St.
Warner, Edwin Eugene	<i>Orange, Mass.</i>	3 Sargent St.
Warton, Carl Thurston	<i>Newburyport, Mass.</i>	36 F. H.
Wayman, Harry Parcell	<i>Chicago, Ill.</i>	13 T. H.
Webster, Merton Wells	<i>Berlin, Conn.</i>	3 Col. H.
Welch, Frederick William	<i>E. Lempster, N. H.</i>	40 S. Main St.
Wells, Arthur Sethus	<i>Middlesex, Vt.</i>	13 Rn. H.
White, Joseph John	<i>East Weymouth, Mass.</i>	15 T. H.
White, Warner Goodrich	<i>Buffalo, N. Y.</i>	6 D. H.
Whittemore, Harvey Foss	<i>Framingham, Mass.</i>	11 E. Wheelock St.
Williams, Howard Chandler	<i>Elgin, Ill.</i>	11 Rd. H.
Winship, Harold Carter	<i>Reading, Mass.</i>	6 Col. H.
Wolf, Ninian Livingston	<i>Denver, Colo.</i>	11 Rn. H.
Wood, Harlan Whitaker	<i>Norwich, Vt.</i>	Norwich, Vt.
Wood, Raymond Collins	<i>Haverhill, Mass.</i>	1 B. H.
Wood, Robert William	<i>Columbia, Tenn.</i>	5 C. H.
Wright, Robert Garfield	<i>Wollaston, Mass.</i>	9 H. H.

SUMMARY

GRADUATE STUDENTS	26
SENIORS	133
JUNIORS	131
SOPHOMORES	189
FRESHMEN	230
TOTAL	<u>709</u>

DISTRIBUTION BY STATES AND COUNTRIES

MASSACHUSETTS	260	WISCONSIN	3
NEW HAMPSHIRE	188	INDIANA	2
NEW YORK	53	KANSAS	2
ILLINOIS	48	NEBRASKA	2
VERMONT	46	TURKEY	2
MAINE	29	TENNESSEE	2
CONNECTICUT	17	ARKANSAS	1
OHIO	12	CANADA	1
RHODE ISLAND	9	CHINA	1
DISTRICT OF COLUMBIA	8	IDAHO	1
PENNSYLVANIA	6	MARYLAND	1
COLORADO	5	NORTH DAKOTA	1
NEW JERSEY	4	VIRGINIA	1
MINNESOTA	3		

TUCK SCHOOL STUDENTS

SECOND YEAR

Name	Residence	Room
† Brown, Philip Lowell	<i>Amesbury, Mass.</i>	42 F. H.
Carleton, Ralph Howard, A.B.	<i>Haverhill, Mass.</i>	9 Hd. H.
Dalrymple, Albert Herman, A.B.	<i>Concord, N. H.</i>	6 Hd. H.
Dorr, Percy Orrin, A. B.	<i>Somersworth, N. H.</i>	35 The Hanover Inn.
Drake, James Frank, A.B.	<i>Pittsfield, N. H.</i>	8 Hd. H.
Fitzgerald, Amos Harold, B.L.	<i>Lowell, Mass.</i>	6 Hd. H.
French, Irving Joseph, B.L.	<i>Park Hill, N. H.</i>	25 Col. Hall.
Fullington, Christopher Chadwick, B.L.	<i>Johnson, Vt.</i>	17 S. Main St.
Paine, Raymond Elder, B.L.	<i>Boston, Mass.</i>	17 S. Main St.

† Special course.

FIRST YEAR

Name	Residence	Room
Barrows, Samuel Fay	<i>Lowell, Mass.</i>	17 S. H.
Brown, Ernest Lee	<i>Lebanon, N. H.</i>	17 T. H.
Brown, Marcus Richard	<i>Fall River, Mass.</i>	Davison Block
Cushing, Henry Dwight	<i>South Hingham, Mass.</i>	25 S. Main St.
Cutter, Victor Macomber	<i>Lowell, Mass.</i>	7 H. H.
Follett, Herbert Champion	<i>Chicago, Ill.</i>	7 Rd. H.
French, Morton Bowles	<i>Athol, Mass.</i>	25 S. Main St.
Hadley, Chester Barton	<i>Arlington Heights, Mass.</i>	Δ T Δ House
Haugan, Henry Alexander	<i>Chicago, Ill.</i>	C. & G. House
Howard, Preston Wilbar	<i>Brockton, Mass.</i>	Φ Δ Θ House
Kennedy, John Henry	<i>Holyoke, Mass.</i>	1 C. H.
Palmer, Albert Rollins	<i>Brooklyn, N. Y.</i>	12 S. H.
Safford, Henry Gates	<i>Quechee, Vt.</i>	35 College St.
Sleicher, George Ingalls	<i>Albany, N. Y.</i>	7 Col. H.
†Stowell, Franklin Henry	<i>Worcester, Mass.</i>	6 Rd. H.
Wentworth, John Paul	<i>Sandwich, N. H.</i>	10 C. H.
Whelden, Perley Eaton	<i>Ludlow, Vt.</i>	12 S. H.

† Special course.

THAYER SCHOOL STUDENTS

GRADUATE STUDENTS

Name	Residence	Room
McKenzie, Alexander Anderson, B.S.	<i>Hanover, N. H.</i>	4 W. Wheelock St.
Winslow, Arthur Ellsworth, C.E.	<i>Northfield, Vt.</i>	Northfield, Vt.

SECOND YEAR

Name	Residence	Room
Davis, Carroll Worthen	<i>Post Mills, Vt.</i>	5 N. Park St.
Doane, Royal Belden, B.S.	<i>Beckley, Conn.</i>	Thayer Building
Farr, Leslie Boynton, B.S.	<i>Newtonville, Mass.</i>	23 S. Main St.
Hill, Harry Cyrus, B.S.	<i>Concord, N. H.</i>	K K K House
Leahy, Maurice Joseph, B.S.	<i>So. Hadley Falls, Mass.</i>	Thayer Building
Perkins, Locke McIndoe, B.S.	<i>Windsor, Vt.</i>	25 Lebanon St.
Plumer, Harold Edward, B.S.	<i>Dover, N. H.</i>	23 S. Main St.

DARTMOUTH COLLEGE

Name	Residence	Room
Porter, John Endicott, B.S.	<i>Danvers, Mass.</i>	Observatory
Richmond, Harold Samuel, B.C.E.	<i>Northfield, Vt.</i>	Thayer Building
Sampson, George Arthur, B.S.	<i>Middleboro, Mass.</i>	35 College St.
Smith, Albert, B.S.	<i>Chicago, Ill.</i>	K K K House
Stanton, Fred Caswell, B.S.	<i>Vineyard Haven, Mass.</i>	Thayer Building
Tozzer, Arthur Clarence, B.S.	<i>Lynn, Mass.</i>	11 E. Wheelock St.
Walker, John	<i>New Britain, Conn.</i>	9 T. H.

INTERMEDIATE YEAR

(Students on leave of absence for field and office practice)

Name	Residence
Adams, Herbert Carroll, B.S.	<i>Haverhill, Mass.</i>
Draughtsman, Am. Bridge Co., East Berlin, Conn.	
Hosford, Clarence Kent, B.S.	<i>North Thetford, Vt.</i>
Instrument man, U. S. Geological Survey, Towson, Md.	
Newman, George William, B.S.	<i>Keene, N. H.</i>
Levelman, Mexican Central Ry., City of Mexico.	
Schilling, Albert Henry, B.S.	<i>New Britain, Conn.</i>
Draughtsman, Am. Bridge Co., East Berlin, Conn.	

FIRST YEAR

Name	Residence	Room
Comstock, Harold Dearborn	<i>Chelsea, Vt.</i>	4 B. H.
Hess, Harold Miner	<i>Evanston, Ill.</i>	7 Rd. H.
McClary, Nelson Ford	<i>Malone, N. Y.</i>	K K K House
Matteson, Byron Winfield	<i>New York, N. Y.</i>	35 College St.
Mechlin, Oscar Alexander	<i>Washington, D. C.</i>	♣ Δ Θ House
Morse, Harold Marston	<i>Brooklyn, N. Y.</i>	15 Rd. H.
Osgood, Fred Wheeler	<i>Fitchburg, Mass.</i>	6 W. South St.
Paul, Carroll	<i>Washington, D. C.</i>	♣ Δ Θ House
Perham, Frank Stuart	<i>Hanover, N. H.</i>	6 W. South St.
Reed, George Albert	<i>Barre, Vt.</i>	10 College St.
Ropes, Leon Howard	<i>Methuen, Mass.</i>	Observatory
Smith, Sherman	<i>Omaha, Neb.</i>	35 College St.
Soper, Ralph Carroll, A. B.	<i>So. Royalton, Vt.</i>	25 S. H.
Worthen, Carl Burpee	<i>Melrose, Mass.</i>	25 S. Main St.

MEDICAL STUDENTS

FOURTH YEAR

Name	Residence	Room
Batchelder, Edward Carpenter, A.B.	<i>Pittsfield, N. H.</i>	35 N. Main St.
Butterfield, Clarence Egbert, B.L.	<i>Perkinsville, Vt.</i>	5 S. Park St.
Clark, William Edward, B.L.	<i>Charlestown, N. H.</i>	8 Lebanon St.
Dolloff, Charles Hall, B.L.	<i>Everett, Mass.</i>	3 Sargent St.
Downing, Arthur Taylor, A.B.	<i>Hanover, N. H.</i>	19 Allen St.
Dutton, Julius Maltby, A.B.	<i>Hanover, N. H.</i>	5 S. Park St.
Gates, George Cushman Coleman	<i>Gardner, Mass.</i>	8 Lebanon St.
Hopkins, Arthur Warren, A.B.	<i>Manchester, N. H.</i>	Hospital
Lord, Frederick Pomeroy, A.B.	<i>Hanover, N. H.</i>	37 College St.
Mayes, Matthew Taylor	<i>Rutland, Vt.</i>	40 S. Main St.
Severance, Robert Nathaniel	<i>Leyden, Mass.</i>	40 S. Main St.
Stickney, William, B.L.	<i>Bethel, Vt.</i>	Medical Building
Wallace, Arthur Lowell, A.B.	<i>Hanover, N. H.</i>	23 Allen St.
Warden, John Bachop, B.S.	<i>Hanover, N. H.</i>	8 Lebanon St.
Woodman, James Brown, A.B.	<i>West Lebanon, N. H.</i>	Medical Building

THIRD YEAR

Name	Residence	Room
Bishop, Eliot, A.B.	<i>Brooklyn, N. Y.</i>	26 Col. H.
Bliss, George Stephen	<i>Lebanon, N. H.</i>	Hospital
Caverly, Fred Stickney	<i>Dover, N. H.</i>	19 Maple St.
Chase, Walter Lincoln, B. PH.	<i>Newton, Mass.</i>	25 Lebanon St.
Cobb, Gardner Nathan, A.B.	<i>Stratford, Vt.</i>	9 College St.
Curtis, Harlan Fuller, B.L.	<i>Killingworth, Conn.</i>	19 Maple St.
Hanson, William Thomas	<i>Milltown, Me.</i>	4 Wentworth St.
Hedin, Carl Johan	<i>Croydon, N. H.</i>	10 Maple St.
O'Connell, Andrew Edward	<i>Worcester, Mass.</i>	21 School St.
Shanley, John Dawson	<i>Vernon, Conn.</i>	21 School St.

SECOND YEAR

Name	Residence	Room
Bowler, John William	<i>Hanover, N. H.</i>	22 Occom Ridge
Chase, Daniel Robert	<i>Orford, N. H.</i>	6 W. South St.
Dearborn, Selwyn Kenson, A.B.	<i>Hanover, N. H.</i>	6 W. Wheelock St.

Name	Residence	Room
Dudley, Charles Howard	<i>Lancaster, N. H.</i>	9 College St.
Egbert, Edward Homer	<i>Cleveland, O.</i>	8 Lebanon St.
Fitch, Emery Moore	<i>Princeton, Me.</i>	9 College St.
Graham, George Sellers, B.L.	<i>Everett, Mass.</i>	13 E. Wheelock St.
Griffin, John Francis, B.L.	<i>So. Hadley Falls, Mass.</i>	12 Col. H.
Johnson, Walter Alphonso	<i>East Hampstead, N. H.</i>	6 W. South St.
Kimpton, Arthur Roland	<i>East Somerville, Mass.</i>	23 Allen St.
Leach, Homer Zenas, A. B.	<i>Hanover, N. H.</i>	Medical Building
Merrill, Ayres Philip	<i>Pittsfield, Mass.</i>	Newton Inn
Pattrell, Arthur Ellis, B.S.	<i>Wilder, Vt.</i>	11 E. Wheelock St.
Pike, Frederic Albert	<i>Brookline, Mass.</i>	5 W. South St.
Potts, Joseph Henry	<i>No. Billerica, Mass.</i>	12 Occom Ridge
Quigley, Frederic James	<i>Union Hill, N. J.</i>	5 W. South St.
Ruggles, Arthur Hiler, A. B.	<i>Hanover, N. H.</i>	38 College St.
Steeves, Ernest Colpitts	<i>Hanover, N. H.</i>	5 S. Park St.
Whitcher, Burr Royce, A. B.	<i>Woodsville, N. H.</i>	9 College St.

FIRST YEAR

Name	Residence	Room
Abdian, Gregory Nazareth	<i>Hadjin, Turkey</i>	13 H. H.
Bennett, Hamlin Perley	<i>Farmington, N. H.</i>	17 W. H.
Brackett, Karl Starkey	<i>Winchester, Mass.</i>	5 The Hanover Inn
Bullard, Edward Arthur	<i>Cambridge, Mass.</i>	Medical Building
Burbeck, Edward Kimball	<i>Manchester, N. H.</i>	41 S. Main St.
Chapin, William Sanders	<i>Chelsea, Vt.</i>	4 B. H.
Chedel, Charles Brigham	<i>Pittsfield, Vt.</i>	15 Rd. H.
Craig, Willis Parker	<i>Marlow, N. H.</i>	22 Col. H.
Farr, Irvin Harris	<i>Holyoke, Mass.</i>	4 School St.
Howland, Clifford	<i>Flushing, N. Y.</i>	23 S. Main St.
Hoyt, Park Rowe	<i>Lakeport, N. H.</i>	13 School St.
Kelley, Herbert Lester	<i>Franklin Falls, N. H.</i>	34 F. H.
Lyman, Timothy	<i>West Brookfield, Mass.</i>	41 S. Main St.
Mathes, Roy Wentworth	<i>Durham, N. H.</i>	19 Maple St.
McCorison, Carl Copeland	<i>North Berwick, Me.</i>	9 T. H.
McGowan, Robert	<i>Paterson, N. J.</i>	1 C. H.
Mudge, Otis Pope	<i>Danvers, Mass.</i>	6 College St.
Mullett, George Burnham	<i>North Brookfield, Mass.</i>	33 F. H.
Newell, Charles Edward	<i>West Derry, N. H.</i>	3 School St.
Seaver, Fred Eugene	<i>Bristol, N. H.</i>	Medical Building
Swan, Lawrence Clark	<i>Stoughton, Mass.</i>	15 Rd. H.

SUMMARY OF STUDENTS

DARTMOUTH COLLEGE	709
TUCK SCHOOL	28
THAYER SCHOOL	32
MEDICAL SCHOOL	65
Total (deducting for names inserted twice) . .	<u>789</u>

DISTRIBUTION BY STATES AND COUNTRIES

MASSACHUSETTS	284	WISCONSIN	3
NEW HAMPSHIRE	220	INDIANA	2
VERMONT	58	KANSAS	2
NEW YORK	56	NEBRASKA	2
ILLINOIS	49	TENNESSEE	2
MAINE	32	TURKEY	2
CONNECTICUT	22	ARKANSAS	1
OHIO	13	CANADA	1
RHODE ISLAND	9	CHINA	1
DISTRICT OF COLUMBIA . .	8	IDAHO	1
PENNSYLVANIA	6	MARYLAND	1
COLORADO	5	NORTH DAKOTA	1
NEW JERSEY	4	VIRGINIA	1
MINNESOTA	3		

ABBREVIATIONS

A. H.	Allen Hall	H. H.	Hallgarten Hall
B. H.	Bartlett Hall	Hd. H.	Hubbard House
C. H.	Crosby House	Rd. H.	Reed Hall
Col. H.	College Hall	Rn. H.	Richardson Hall
D. H.	Dartmouth Hall	S. H.	Sanborn House
E. H.	Elm House	T. H.	Thornton Hall
F. H.	Fayerweather Hall	W. H.	Wentworth Hall
H. A.	Hallgarten Annex		

HONORS AND PRIZES

HENRY ELIJAH PARKER FELLOWSHIP

Class of 1901 — Arthur Ela Buck.

RUFUS CHOATE SCHOLARS

SENIORS — Herbert Carroll Adams, Frederick Oliver Bradley, Arthur Houston Chivers, Leland Griggs, Kenneth Lee Morse.

JUNIORS — Stanwood Cobb, Ernest Rutherford Groves, Henry Erich Kasemere Ruppel.

SOPHOMORES — Arthur Isaac Charron, Henry Woodbury Chase, Percy Chandler Ladd, Jerome Meyers.

FRESHMEN — Winfield Supply Barney, Edmund Ezra Day, John Hoffman Dunlap, John Albert Laing, Chester Newell Moore, John Hinsdale Neely.

SPECIAL HONORS

SENIORS

FRENCH — Arthur Leon Eaton.

ZOÖLOGY — Leland Griggs.

BOTANY — Arthur Houston Chivers.

PHILOSOPHY — Kenneth Lee Morse.

HONORS

SENIORS

FRENCH — William Henry Murray.

PHYSICS — Robert Henry Elliott, Herman Waldo Farwell, Philip Fox.

ZOÖLOGY — Leland Griggs.

BOTANY — Arthur Houston Chivers.

HONORABLE MENTION

SENIORS

CHEMISTRY — Leland Griggs.
ZOOLOGY — Arthur Houston Chivers.
BOTANY — Arthur Houston Chivers, Leland Griggs.
MINERALOGY — Arthur Houston Chivers.
ECONOMICS — Frederick Oliver Bradley, Arthur Sargent Field.

JUNIORS

MATHEMATICS — Henry Erich Kasemere Ruppel.
GRAPHICS — Howard Leon Ropes.
PHYSICS — Henry Erich Kasemere Ruppel.
BOTANY — William Sanders Chapin, Laurence Clarke Swan.
MINERALOGY — Otis Pope Mudge.

SOPHOMORES

GREEK — Henry Monroe Hall, Percy Chandler Ladd, Leslie Warren Orcutt.
FRENCH — Harry Woodbury Chase.
GERMAN — Arthur Isaac Charron, William Aiken Kneeland, Percy Chandler Ladd.
BOTANY — James Stewart Brotherhood.

PRIZES

Grimes — English Composition — Seniors

First Prize — George Sellers Graham.
Second Prize — Roy Winthrop Hatch.

Lockwood — English Composition — Juniors

First Prize — Stanwood Cobb.
Second Prize — Roy Frederick Bergengren.

*Pacific Coast Alumni Association — American Literature —
Sophomores*

William Aiken Kneeland.

Rollins — Oratory — Juniors, Sophomores, and Freshmen

First Prize — Sherman Arnold Murphy.

Second Prize — Fletcher Hale.

Third Prize — Henry Morgan Hobart.

Smith — Extemporaneous Debate — Seniors

First Prize — JULIUS ARTHUR BROWN.

Second Prize — ERNEST BRADLEE WATSON.

Class of 1866 — Original Orations — Juniors and Sophomores

First Prize — VICTOR MORTON PLACE.

Second Prize — SHERMAN ARNOLD MURPHY.

Barge Gold Medal — Original Orations — Seniors

ERNEST BRADLEE WATSON.

Class of 1846 — Latin — Juniors

First Prize — NO AWARD.

Second Prize — NO AWARD.

Atherton — Greek — Juniors

First Prize — GEORGE WILLIAM PATCH.

Second Prize — HENRY WARD DELANO.

Thayer — Mathematics — Sophomores

First Prize — HENRY MONROE HALL.

Second Prize — HARRIE LANGDON MUCHEMORE.

Pray — Modern Languages — Seniors

French — WILLIAM HENRY MURRAY.

German — ARTHUR LEON EATON.

Grimes — General Improvement — Seniors

ARTHUR HOUSTON CHIVERS.

*Spalding — Mechanical Drawing — Juniors, Chandler
Scientific Course*

First Prize — HOWARD LEON ROPES.

Second Prize — SHERMAN SMITH.

Moore — Geology — Seniors

RALPH CARROLL SOPER.

DEGREES CONFERRED IN COURSE

BACHELORS OF ARTS

Adriance, William	Eaton, Arthur Leon
Alling, Benjamin Willard	Edson, Pearl Paine
Archibald, Kenneth	Elderkin, George Wicker
Ballou, Henry Burchard	Estabrook, Robert Francis
Banning, Kendall	†Farwell, Herman Waldo
Barnes, Thomas Luey	Field, Arthur Sargent
Beaudry, George Hobbs	Fitzpatrick, Louis Johnson
†Bradley, Frederick Oliver	Fowler, Clayton Holt
†Brown, Julius Arthur	Furber, Charles Harris
Bunker, Frank Parker	Gilman, John Sanborn
Cannell, John Weston	Goddard, Charles William
Carleton, Ralph Howard	Griffin, Philip Charles
Carley, Neale Severance	†Griggs, Leland
†Chivers, Arthur Houston	Harris, Howard Merton
Clark, Robert Cushman	Harrison, Charles Harvey
Corse, Elton Lee	Hatch, Roy Winthrop
Cristy, Austin Phelps, Jr.	Hazen, Clarence Milton
Cushing, Daniel Thomas	Holmes, Joseph Edwin
Dalrymple, Albert Herman	Howard, William Hanson, Jr.
Dorr, Percy Orrin	Hubbard, Thomas Parker
Dow, George Lincoln	Huntington, James Lincoln
Drake, James Frank	Keniston, Davis Baker
Duncklee, Maurice Johnson	Kimball, Louis Maurice
Easson, James	Ladd, Carey Prentis
† Cum laude.	† Magna cum laude.

Larned, Richard Montgomery, Jr.	Sanborn, Harvey Beede
Leach, Homer Zenas	Sanborn, Hugh Montgomery
Lyons, Dennis Francis	Sanborn, Henry Nichols
McVicar, Edward Joseph	Smith, Robert Holbrook
Merrill, Arthur Hodges	Soper, Ralph Carroll
Moore, Frank Cochrane	Stone, Howard Perley
Morse, Kenneth Lee	Taylor, Ralph Haydn
Munroe, James Albert	Thompson, Philip Pickering
Murphy, William Henry	Tracy, Henry Carroll
Parker, Herbert Gooding	Watson, Ernest Bradlee
Passage, George Azel	Wattie, Charles
Pattee, George Kynett	Whitcher, Burr Royce
Perkins, Moses Bradstreet	Winslow, Asa Irving
Pillsbury, Henry Church	Wright, Joseph Garfield
Ruggles, Arthur Hiler	

Folsom, Channing, '70

BACHELORS OF LETTERS

Abbott, Guy Hammond	Howard, William, Jr.
Clark, Robert Browning	Irvin, Arba J
Cregg, Edward Francis	Kircher, Charles Arthur, Jr.
Elliott, Robert Henry	Lamprey, David Clinton, Jr.
Fitzgerald, Amos Harold	MacKinnon, Allen Parmalee
Fullington, Christopher Chadwick	Mahoney, William Henry
Graham, George Sellers	Paine, Raymond Elder
Griffin, John Francis	Parker, Harold Francis
Hall, William Clark	Peckam, Reuben
Hill, Lawrence Richardson	Pratt, David Damon
Hill, William Carroll	Smith, Chesley Hartt
Houghton, Arthur Stillman	Thompson, William Bisbee

BACHELORS OF SCIENCE

Adams, Herbert Carroll	Fox, Philip
Anguera, Herman Keidel Clifford de	French, Frank Payson
Cofran, Frank Eugene	Gay, Charles Waterman
Farr, Leslie Boynton	Gilchrist, Robert Howard

Hall, Francis Chamberlain
 Hartshorn, John Edward
 Hill, Harry Cyrus
 Hosford, Clarence Kent
 Hubbard, George Morrison
 Lambert, Avery Eldorus
 Leahy, Maurice Joseph
 Newman, George Willard
 Newman, Sewall Edwin
 O'Connor, John Christopher
 Parry, Augustus Newell, Jr.

Pattrell, Arthur Ellis
 Peck, Martin William
 Plumer, Harold Edward
 Porter, John Endicott
 Riley, Francis Bennett
 Ruggles, Arthur Valentine
 Schilling, Albert Henry
 Stanton, Fred Caswell
 Studwell, Chester Arthur
 Tozzer, Arthur Clarence
 Varney, Lawrence Delano

MASTERS OF COMMERCIAL SCIENCE

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 Eckstorm, Paul Frederick
 Theodore, B.L.
 Foster, Oliver Wallace, A.B.

Sibley, Horold Thorndike, A.B.
 Storrs, Edward Payson, Jr., B.S.
 Teague, Henry Nelson, A.B.
 Ward, Richard, Jr., A.B.

CIVIL ENGINEERS

Andrews, John Gilbert, B.S.
 Chase, Charles Richard, B.S.
 Crowell, John William, B.S.
 Cudworth, Frank Ezekiel, B.S.
 Derickson, Donald
 Hunter, Edgar Hayes, B.S.
 McIntyre, James Bradford, B.S.

Marsh, Francis Beal, B.S.
 Newhall, Frank Warren, B.S.
 Norris, Arthur Henry, B.S.
 Rugg, Warren Fuller, B.S.
 Stevens, Everett Mellen, B.S.
 True, Albert Lyman, B.S.

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 Beckwith, Henry Witter
 Bugbee, Locke Harwood
 Cown, Ernest William
 Cullen, James Augustine
 Fitzpatrick, John Joseph
 Folsom, Charles Albert, A.B.
 Hill, Ernest Linwood

Huckins, Theron Howard, B.L.
 Lally, Francis Henry
 Leathers, Enoch
 Marcle, John Walter, B.L., M.D.
 Newhall, Alden Russell
 Sanborn, Frederick Rodney, A.B.
 Wilder, Ralph Spencer, B.S.
 Yeaton, George William

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Browne, Charles Ellsworth, A.B. (1901)
French, George Franklin, A.B. (1901)
Miller, Herbert Adolphus, A.B. (1899)
Richardson, Leon Burr, B.L. (1900)
Surrey, Frank Miller, A.B. (1899)
Willard, Harley Richard, A.B. (1899)
Woodman, Leon Elmer, A.B. (1899)

HONORARY DEGREES

MASTERS OF ARTS

Henry King Braley

Calvin Page

DOCTORS OF DIVINITY

Robert Parkinson Herrick (1880) Thomas Marshall (1857)

DOCTORS OF LAW

James Mason Hoppin (Yale 1840) John Noble (Harv. 1850)

DARTMOUTH COLLEGE



FACULTY

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JOHN KING LORD, ACTING PRESIDENT OF THE FACULTY IN
ABSENCE OF THE PRESIDENT.

CHARLES FRANKLIN EMERSON, DEAN OF THE FACULTY.

CHARLES HENRY HITCHCOCK, *Hall Professor of Geology
and Curator of Butterfield Museum.*

WILLIAM THAYER SMITH (*Professor in Medical School*), *In-
structor in Physiology.*

GEORGE PUTNAM HUNTINGTON, *Instructor in Hebrew.*

GABRIEL CAMPBELL, *Stone Professor of Intellectual and
Moral Philosophy.*

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FRANK ASBURY SHERMAN, *Professor of Mathematics on
the Chandler Foundation.*

CHARLES FRANCIS RICHARDSON, *Winkley Professor of
English.*

MARVIN DAVIS BISBEE, *Librarian and Professor of Bibliog-
raphy.*

THOMAS WILSON DORR WORTHEN, *Cheney Professor of
Mathematics.*

EDWIN JULIUS BARTLETT, *New Hampshire Professor of
Chemistry.*

JAMES FAIRBANKS COLBY, *Parker Professor of Law and
Political Science.*

JOHN VOSE HAZEN, *Woodman Professor of Civil Engineering
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CHARLES HENRY MORSE, *Musical Director and Instructor*
in Harmony.

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WILLIAM PATTEN, *Professor of Zoölogy.*

GEORGE DANA LORD, *Associate Professor of Greek and of*
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HERBERT DARLING FOSTER, *Professor of History.*

GILMAN DuBOIS FROST (*Professor in Medical School*), *In-*
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of Roman Archaeology.

WARREN AUSTIN ADAMS, *Assistant Professor of German.*

FRED PARKER EMERY, *Willard Professor of Rhetoric and*
Oratory.

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LOUIS HENRY DOW, *Professor of French.*

HARRY EDWIN BURTON, *Assistant Professor of Latin.*

JOHN HIRAM GEROULD, *Instructor in Zoölogy.*

GEORGE RAY WICKER, *Instructor in Economics.*

FRANK HAIGH DIXON, *Assistant Professor of Economics.*

GORDON FERRIE HULL, *Assistant Professor of Physics.*

CHARLES HENRY RICHARDSON, *Instructor in Mineralogy*
and Geology.

ERNEST FELIX LANGLEY, *Assistant Professor of the*
Romance Languages, (French and Italian).

ASHLEY KINGSLEY HARDY, *Assistant Professor of German*
and Instructor in Old English.

JOHN ELIOT ALLEN, *Instructor in Law.*

GEORGE RICHARD LYMAN, *Instructor in Botany.*

SHEPHERD IVORY FRANZ, *Instructor in Physiology and Med-*
ical Physics.

HERMAN HARRELL HORNE, *Assistant Professor of Philosophy and Pedagogy.*

RICHARD WELLINGTON HUSBAND, *Instructor in Greek and in Classical Philology.*

CHARLES ARTHUR HOLDEN, *Instructor in Mathematics and Assistant in Graphics.*

CRAVEN LAYCOCK, *Assistant Professor of Oratory.*

SIDNEY BRADSHAW FAY, *Assistant Professor of History.*

PRESCOTT ORDE SKINNER, *Instructor in the Romance Languages, (French and Spanish).*

HOWARD NELSON KINGSFORD, *Medical Director.*

WILLIAM KILBORNE STEWART, *Instructor in German.*

CHARLES ERNEST BOLSER, *Instructor in Chemistry.*

JOHN MERRILL POOR, *Instructor in Astronomy.*

HARRY BYRON TAPSCOTT, *Instructor in French and German.*

KAN-ICHI ASAKAWA, *Lecturer on The Far East.*

HOMER EATON KEYES, *Instructor in English.*

CHARLES MARSHALL UNDERWOOD, JR., *Instructor in French.*

FRANKLIN CROCKER LEWIS, *Instructor in Pedagogy.*

LEON BURR RICHARDSON, *Instructor in Chemistry.*

ROBERT LEIGHTON SCALES, *Instructor in English.*

ETTA MATTOCKS NEWELL, *Assistant Librarian.*

JOHN WILLIAM BOWLER, *Instructor in Physical Culture and Director of the Gymnasium.*

GEORGE HILL EVANS, *Cataloguer in the Library.*

FREDERICK WARREN JENKINS, *Departmental Reference Librarian.*

HOWARD MURRAY TIBBETTS, *Registrar.*

ERNEST MARTIN HOPKINS, *Secretary to the President.*

STANDING COMMITTEES OF THE FACULTY

1902-1903

ADMINISTRATION — The President, the Acting President, the Dean, Professor Richardson (Senior class-officer), Professor Horne (Junior class-officer), Professor Laycock (Sophomore class-officer), Professor W. A. Adams (Freshman class-officer).

ADMISSION — Professors Sherman (chairman), G. D. Lord, Foster, Hull, Hardy, Messrs. Gerould, Keyes, Lewis, the Dean (ex-officio).

INSTRUCTION — Professors Emery (chairman), Worthen, Moore, Nichols, Horne, Langley, the Dean (ex-officio).

LIBRARY — Professors Moore (chairman), Hitchcock, Bisbee, Taylor, Messrs. Husband, Skinner.

ATHLETICS — Professors Bartlett (chairman), Patten, Dr. Bolser.

ORGANIZATIONS OTHER THAN ATHLETIC — Professors Dixon (chairman), Laycock, Mr. Stewart.

COLLEGE HALL — Professors Bartlett (chairman), Burton, Dixon.

GRADUATE INSTRUCTION — Professors Richardson (chairman), Campbell, Colby, Smith, Nichols.

REQUIREMENTS FOR ADMISSION

ALL CANDIDATES FOR ADMISSION to college must offer satisfactory testimonials of good moral character; and those who have been members of other colleges must present certificates of regular dismission.

CANDIDATES FOR ADMISSION to the Freshman class in the A.B. COURSE must present satisfactory qualifications in the following subjects, according to specifications given under each subject:

Group I.

English
History I
Mathematics I
Latin
Greek

Group II.

English
History I or II
Mathematics I
Latin
{ French or
{ German
{ Physics, or
{ Chemistry, or
{ Biology

In 1905, and after, the requirements for entrance for the A.B. degree without Greek will be the present requirements of group II., with the addition of one year of a *second* modern language, or a *second* year of history.

CANDIDATES FOR ADMISSION to the Freshman class in the B.S. COURSE (Chandler Scientific) must present satisfactory qualifications in the following subjects, according to specifications given under each subject:

Group III.

English
History I or II
Mathematics I
Mathematics II
{ French, or
{ German
{ Physics
{ Chemistry } two of the three.
{ Biology }

Group IV.

English
History I or II
Mathematics I
Latin, 2 yrs.
{ French, or
{ German
{ Physics
{ Chemistry } two of the three.
{ Biology }

In 1905, and after, the requirements for entrance for the B.S. degree will be increased as follows : instead of an option between Mathematics II and Latin, two years, as now shown in Group III and IV, a candidate must present *two* of the *four* following subjects: Mathematics II, two years of Latin, two years of a second modern language, or two additional years of History.

SUBJECTS WITH SPECIFICATIONS

ENGLISH

Two sets of books are prescribed for preparation in English, one for reading, the other for more careful study. No candidate will be accepted in English, whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs. The requirement consists of two parts.

I. Reading. — A certain number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and be able to answer simple questions on the lives of the authors; he must also show the ability to write a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number — perhaps ten or fifteen — set before him. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may be allowed to present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the requirement will be :

In 1903. — Shakespeare's *The Merchant of Venice* and *Julius Cæsar*; *The Sir Roger de Coverley Papers* in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; George Eliot's *Silas Marner*; Lowell's *The Vision of Sir Launfal*.

In 1904, 1905. — Shakespeare's *The Merchant of Venice* and *Julius Cæsar*; *The Sir Roger de Coverley Papers* in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; George Eliot's *Silas Marner*; Lowell's *The Vision of Sir Launfal*.

In 1906. — Shakespeare's *Macbeth* and *The Merchant of Venice*; *The Sir Roger de Coverley Papers* in *The Spectator*; Irving's *Life of Goldsmith*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe* and *The Lady of the Lake*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

II. Study and Practice. — This part of the requirement presupposes the thorough study of each of the works named below. The test will be upon subject-matter, form, and structure.

The books set for this part of the requirement will be:

In 1903. — Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1904, 1905. — Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1906. — Shakespeare's *Julius Cæsar*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Milton, and Life of Johnson*.

HISTORY (including Historical Geography)

Either of the two following groups, each including two fields of historical study: — [But candidates for the A.B. degree entering with Greek *must* present I].

I. *Greek and Roman History*. — (a) Greek History to the death of Alexander, with due reference to Greek life, literature, and art. (b) Roman History to the accession of Commodus, with due reference to literature and government.

II. *English and American History*. — (a) English History, with due reference to social and political development. (b) American History, with the elements of Civil Government.

For preparation in each of the two historical fields presented (a) or (b) a course of study equivalent to at least three lessons a week for one year (or five recitations for one year for the two fields together) will be necessary.

The preparation and examination call for: (1) such general knowledge of each field as may be acquired from the study of an accurate text-book of not less than 300 pages, supplemented by suitable parallel

readings amounting to not less than 300 pages; (2) geographical knowledge tested by the location of places, movements, or territorial changes on an outline map (by physical features wherever possible, as well as by political features); (3) comparisons between historical characters, periods, or events; (4) in general the exercise of judgment and the power to combine results of reading in orderly fashion. The last two requirements must be met in part by some forms of written work.

The following list will indicate the nature and amount of work required in text-books and supplementary readings.

Greek History — *Either* (a) Oman's or Myers' History of Greece, with additional reading,

or (b) Fyffe's Greece, Sheldon's Studies, and 400 pages additional reading,

or (c) Fyffe; Curtius' History of Greece, Book i, Ch. i; Book iii, Ch. iii; and *either* (1) Plutarch's Lives of Aristides and Demosthenes, *or* (2) Curtius' History of Greece, Book ii, Ch. iv.

Roman History — *Either* (a) Allen's Short History of the Roman People, and 300 pages additional reading,

or (b) both Creighton's Rome and Sheldon's Studies, and 400 pages additional reading,

or (c) Creighton's Rome; Tighe's Development of the Roman Constitution; and *either* (1) Froude's Cæsar, Ch. xiv, xxvi-xxviii, Plutarch's Lives of Cato the Elder and Cicero, and the comparisons of Cato with Aristides, and of Cicero with Demosthenes; *or* (2) Beesly's The Gracchi, Marius, and Sulla.

English History — *Either* Higginson and Channing's English History for Americans, *or* Ransome's Short History of England, *or* Montgomery's Leading Facts of English History, *or* Gardiner's English History for Schools, *or* Gardiner's Student's History, each with at least 300 pages additional reading, which may be selected from the following list:—Guest's Lectures on English History, Green's Short History of the English People, Ch. i and Ch. vi, sections iii-vii, Freeman's Short History of the Norman Conquest, Mrs. J. R. Green's Henry II, Creighton's Age of Elizabeth, Gardiner's Puritan Revolution, Macaulay's History of England, Ch. iii, Woodburn's "Lecky's American Revolution," Seeley's Expansion of England.

American History—*Either* (a) Channing's Students' History of the United States or Johnston's History of the United States for Schools, each with 200 pages additional reading,

or (b) Higginson's Young Folks' History of the United States, through Ch. xvi, together with 200 pages additional reading and *either* (1) Channing's United States 1765-1865, *or* (2) Johnston, from beginning of Period V,

or (c) Higginson; Lodge's English Colonies, Ch. ii and xxii; Morse's John Quincy Adams, Ch. ii and iii; Josiah Quincy's Figures of the Past.

The American Historical Association through the report of its Committee of Seven and the New England History Teachers' Association through a concurrent report of its Committee of Six have recommended the following course of study in History in all secondary schools.

1st year, Ancient History to 800 A.D.

2nd year, Mediæval and Modern European History.

3rd year, English History.

4th year, American History and Civil Government.

In view of these reports and their probable adoption in many schools, examinations will be offered and certificates accepted in Ancient History to 800 and Mediæval and Modern European History, as the equivalent of the present Group I, for such schools as have already adopted or are preparing to adopt this course of study.

MATHEMATICS I

Thorough drill in Arithmetic is of vital importance in the study of Mathematics. Facility in the use of integral and fractional numbers should be acquired in the lower grades and retained by the use of numerical examples through the high school course. Short processes and decimals including the metric system should be used habitually. It is assumed that this fundamental work has been done.

Algebra—The fundamental operations, simple equations with applications to problems involving two or more unknown quantities, the principles of factoring, involution and evolution applied to expressions containing fractional and negative exponents, radicals including imaginaries and radical equations, quadratic equations with applications to problems involving two or more unknown quantities, arithmetical and geometrical progression, ratio and proportion, and the binomial theorem for positive integral exponents.

Plane Geometry — The ordinary propositions relating to rectilinear figures, the measure of angles, proportion and similar figures, regular polygons, circles, areas, constructions and computations involving applications of the more important propositions, original propositions.

MATHEMATICS II

Algebra — Including equations in quadratic form, inequalities, indeterminate equations, proportion, variation, the three progressions, binomial formula for any exponent, convergency of series, undetermined coefficients, and logarithms as treated in a college algebra.

Geometry — Solid Geometry, the ordinary propositions relating to right lines and planes in space, to the measurements of prisms, cylinders, pyramids, cones, frustums, the sphere and portions of its surface and volume, the solution of problems involving the computation and comparison of the surfaces and volumes of the cylinder, cone, frustum of cone, sphere, and their principal inscribed and circumscribed solids.

Trigonometry — Plane Trigonometry, the theory of the functions and their relations so far as to furnish formulae for the computation of the tables and the solution of right and oblique triangles, the use of logarithmic and trigonometric tables in the solution of problems.

LATIN

A knowledge of the Latin language sufficient to enable the student —

I. To translate at sight passages of Latin prose and verse, and to answer questions on ordinary forms, constructions, and idioms, and on prosody.

II. To pass a thorough examination on Cicero's speeches against Catiline, ii, iii, and iv, directed to testing the candidate's mastery of ordinary forms, constructions, and idioms of the language.

III. To translate into Latin prose a passage of connected English narrative, based on some portion of the Latin prose works usually read in preparation for college, and limited to the subject-matter of those works.

Careful attention should be given from the beginning to the correct pronunciation of Latin words, both as to quantity and to syllabication. Such pronunciation greatly aids the study of prosody, and is indispensable to the correct reading of Latin poetry.

The examination, except as stated in II above, will be directed to testing the candidate's knowledge of Latin as a whole rather than his knowledge of special works which he has studied. It is believed that

the study of Latin for four years with five lessons a week, covering an amount equal to four books of Cæsar, six speeches of Cicero, and not less than 4500 lines of Virgil and 1500 lines of Ovid, together with constant attention to Latin composition and to reading at sight, will be sufficient to give the required proficiency.

GREEK

A knowledge of the Greek language sufficient to enable the student —

I. To translate at sight passages of Attic prose and of Homer, and to answer questions on ordinary forms, constructions, and idioms, and on prosody.

II. To pass a thorough examination on Xenophon's *Anabasis*, Book ii, directed to testing the candidate's mastery of ordinary forms, constructions, and idioms of the language.

III. To translate into Greek prose a passage of connected English narrative, based on some portion of the Greek prose works usually read in preparation for college, and limited to the subject-matter of those works.

IV. To read aloud in the Greek, with correct pronunciation, with full expression of the sense of the passage, and, in poetry, with correct expression of the rhythm.

The examination, except as stated in II above, will be directed to testing the candidate's knowledge of Greek as a whole rather than his knowledge of special works which he has studied. It is believed that the study of Greek for three years with five hours a week, covering an amount equal to four books of Xenophon's *Anabasis* and five books of Homer, together with constant attention to Greek composition and to reading at sight, will be sufficient to give the required proficiency.

ADMISSION BY CERTIFICATE

Candidates for admission by certificate must present certificates covering Books i and ii of Xenophon's *Anabasis*, Books iii and iv of the *Anabasis* or their equivalent in other Attic prose, and 2500 lines of Homer.

FRENCH

I. A thorough knowledge of accidence and a familiarity with the essentials of French syntax.

II. The ability to translate at sight ordinary French prose into simple, idiomatic English.

III. The ability to translate into French a connected passage of English based on the text read.

IV. The ability to write ordinary French at dictation.

V. The ability to pronounce French well.

The following course of study is suggested as adequate to secure the proficiency desired :

FIRST YEAR — FIVE LESSONS A WEEK

Drill in pronunciation. The rudiments of grammar, including the conjugation of regular verbs and of the more frequent irregular verbs ; the inflection of nouns and adjectives (except the rare forms) ; the uses of articles, pronouns, common adverbs, prepositions, and conjunctions ; the order of words in the sentence, and the elementary rules of syntax. The translation into French of simple English sentences illustrating the common forms and principles of grammar. The reading of 300 duodecimo pages of simple French prose, with constant practice in turning into French easy variations of the text read. Oral translation and writing of French at slow dictation.

The following texts are suggested as suitable reading for the first year : Mérimée's *Colomba*, Halévy's *L'Abbé Constantin*, Jules Verne's *Le Tour du monde en quatre-vingts jours*, About's *Le Roi des montagnes*, Lamartine's *Jeanne d'Arc*, Labiche and Martin's *Le Voyage de M. Perrichon*, Malot's *Sans Famille*, Legouvé and Labiche's *La Cigale chez les fourmis*, Erckmann-Chatrian's *L'Histoire d'un paysan* and *Le Conscrit de 1813*, Dumas' *La Tulipe noire*.

SECOND YEAR — FIVE LESSONS A WEEK

By this time the pupil should be familiar with accidence, and the grammar work should be confined to the study of syntax, with composition exercises illustrating its essential rules.

About 550-600 duodecimo pages of French prose of ordinary difficulty should be read, and the pupil should be drilled in pronunciation, in oral and written translations into French of variations of the text read, in oral translation and writing of French from dictation, and, in addition, he should be required to give French paraphrases and abstracts of portions of the reading matter.

The following texts are suggested as suitable reading for the second year : Loti's *Pêcheur d'Islande* ; Augier's *Le Gendre de M. Poirier*, Balzac's *Le Curé de Tours*, Coppée's and Daudet's *Stories*, Molière's

L'Avare and Le Bourgeois gentilhomme, Sandeau's Mademoiselle de la Seiglière, Vigny's La Canne de jonc; Sand's La Mare au diable and La petite Fadette.

GERMAN

- I. Ability to pronounce German well.
- II. Ability to translate *at sight* a passage of German *prose* of *ordinary difficulty*.
- III. Ability to put into German a connected passage of simple English *paraphrased* from a given German text, or to turn simple English sentences into German without a model.
- IV. Ability to answer any *grammatical* questions relating to *usual* forms and *essential* principles of the language, including syntax and word-formation.

V. Ability to translate, and to explain, if explanation is called for, a passage of *classical* literature taken from some text previously studied.

The following course of study in German is suggested as adequate to secure the proficiency desired :

FIRST YEAR — FIVE LESSONS A WEEK

(1) *Pronunciation* — Careful attention should be given to the acquisition of a correct pronunciation.

The imitation of the teacher's pronunciation will be the chief factor in the problem; dictation and a knowledge of the rudiments of phonetics will be found very helpful. The attention of the teacher is called to Hempl's German Orthography and Phonology, and to Grandgent's German and English Sounds.

(2) *Memorizing and frequent repetition of easy colloquial sentences* (with variations).

Object — to develop feeling for the language.

(3) *Rudiments of Grammar* (*thoroughly* learned and studied with *exercises*).

Declension of articles, nouns (taken from the language of every-day life), adjectives, pronouns. Comparison of adjectives. Auxiliary verbs (of tense and mood). Weak verbs, more usual strong verbs, more usual prepositions and the cases they govern, more usual conjunctions. Sentence order. Elementary syntax.

Thomas's Practical German Grammar recommended.

- (4) *Reading* (narrative prose with some poetry), 150 pages. *either* (a) a Reader with graduated selections followed by short stories, or (b) Märchen and short stories in graduated texts. Storm's Immensee, Zschokke's Der zerbrochene Krug (edition Joynes), Einer Muss Heiraten, and similar stories and plays are recommended.
- (5) *Paraphrasing*—Constant practice in translating into German *easy variations* upon sentences in the reading lesson.

SECOND YEAR — FIVE LESSONS A WEEK

- (1) *Reading* (narrative prose chiefly, a comedy and one classic), 250–300 pages.

The following course is suggested:—

(a) Short stories—Heyse: L'Arrabbiata (edition Lenz); Riehl: Vierzehn Nothelfer. (b) Selection from historical prose—in Hoffmann's Historische Erzählungen the selection Der deutsch-französische Krieg (edition Beresford-Webb). (c) A comedy—Benedix: Dr. Wespe or Der Prozesz. (d) One classic—Goethe: Hermann und Dorothea (edition Thomas). (e) 50 pages of Freytag's prose.

- (2) *Paraphrasing*—Constant practice in variations upon texts read.

(3) *Grammar*—(a) Drill upon essentials (continued). (b) Enlargement of grammatical knowledge.

- (4) *Word-formation*—Rudiments.

CHEMISTRY

Acquaintance by laboratory work with elementary processes and with the properties of substances common in Chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on the relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry. Bartlett's Laboratory Exercises, Parts i–v (exclusive of Class i, Part ii), or equivalent. A certified note-book of laboratory work must be presented at the time of examination. The candidate should have had in addition recitations based upon any good elementary descriptive text-book through the non-metallic and metallic elements.

To meet the above requirement, at least 110 hours of elementary chemistry are necessary, one-half laboratory work, illustrating the

preparation and the properties of the substances ordinarily treated in elementary chemistry. Qualitative Analysis will not be accepted as an equivalent for the laboratory work prescribed.

PHYSICS

The equivalent of at least one hundred and ten one-hour exercises, of which as many as forty should be practical exercises in the laboratory. The student is expected, in the time devoted to the laboratory work, to perform at least forty experiments, and to have kept a neat and orderly record of the same in a note-book, described in his own words. In both recitation and laboratory exercises, some one of the better text-books or manuals for secondary schools should be followed and completed. The note-book should bear the certification of the instructor and be presented for inspection at the time of the entrance examinations to College.

The student should be taught, as far as possible, to apply the simpler principles of Algebra and Geometry to the solution of practical problems in Physics.

BIOLOGY

I. *Zoölogy* — The equivalent of fifty one-hour exercises, consisting mainly of laboratory work in the study of the structure and life-histories of representative animals.

The candidate will be required to present a certified note-book, containing complete records of the conditions under which his observations were made, as well as the observations themselves; also sketches of all the animals, or their organs, that have been studied.

No work necessitating the use of a compound microscope is required.

Work like that outlined in Needham's Elementary Lessons in Zoölogy will be acceptable.

II. *Botany*. — The equivalent of fifty one-hour exercises, consisting mainly of laboratory work on the natural history of plants.

The candidate must present a note-book containing the notes and drawings he has made, and bearing the endorsement of his teacher certifying that the book is a true record of the pupil's own observations. The presentation of an herbarium is not required, and no weight will be given this evidence of work done unless it illustrates some definite problem in plant relationship.

No work necessitating the use of a compound microscope is required.

Bergen's Elements of Botany or Spaulding's Introduction to Botany. If Gray's lessons are used, they must be supplemented with additional physiology and the use of some such book as Coulter's Plant Relations.

METHODS OF ADMISSION

Admission to the Freshman class in College is gained either by examination or by certificate.

ADMISSION BY EXAMINATION

Candidates in 1903 will present themselves with their credentials at the Dean's office for registration and admission to the examinations a half-hour before the first examination to be taken.

A blank form for the proper credential to be filled out by the Principal of the School will be furnished on application to the Dean.

Examinations for admission are held in room H, Chandler Hall, and three hours are allowed for each session, unless otherwise specified.

ORDER OF EXAMINATIONS IN JUNE

Physics or Biology	9.00 A. M., June 17
Greek and French or German	3.00 P. M. " 17
Mathematics I	9.00 A. M. " 18
Chemistry or Biology	3.00 P. M. " 18
History I or II	9.00 A. M. " 19
Latin and Mathematics II	3.00 P. M. " 19
English	8.30 A. M. " 20

ORDER OF EXAMINATIONS IN SEPTEMBER

Physics or Biology	3.00 P. M., Sept. 17
Greek and French or German	9.00 A. M. " 18
Chemistry or Biology	3.00 P. M. " 18
Mathematics I	9.00 A. M. " 19
History I or II	3.00 P. M. " 19
Latin and Mathematics II	9.00 A. M. " 21
English	3.00 P. M. " 21

Examinations for admission to the Freshman class (but not to higher classes) will also be held on the above specified days in June, in Manchester, N. H. ; St. Johnsbury, Vt. ; Boston (at the De Meritte School, 30 Huntington Avenue) ; New York City and Chicago, at places to be announced in the local newspapers or by personal notice to applicants ; provided that the number of candidates for examination, preliminary or final, in any of the places named shall warrant it. All applications for examinations in June at these places should be made to the Dean before June 10th.

The College is also prepared to hold an examination for admission to the Freshman class (but not to higher classes) on the above-named days in June in any city or at any school where the number of candidates for examination, preliminary or final, and the distance from other places of examination may warrant it, provided that applications for this purpose be made to the Dean before June 1st.

In September examinations are held in Hanover only.

PRELIMINARY EXAMINATIONS

Candidates for admission to the Freshman class are allowed to take a partial examination, one year before their matriculation, on the following subjects :

Mathematics : Geometry.

Latin : 1. The translation at sight of simple prose and verse.

2. A thorough examination on Cicero's speeches against Catiline ii, iii, and iv, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language ; the test to consist, in part, of writing simple Latin prose, involving the use of such words, constructions, and idioms only, as occur in the speeches prescribed.

Greek : 1. The translation at sight of simple Greek prose.

2. A thorough examination on Xenophon's *Anabasis*, Book ii, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language ; the test to consist, in part, of writing simple Greek prose, involving the use of such words, constructions, and idioms only, as occur in the portion of Xenophon prescribed.

French : Grammar, including composition, and translation of works read during first year, as indicated under the requirements in French.

German : Grammar, including composition, and translation of works, as indicated under the first year requirements in German.

In this examination no condition will be imposed, and a failure in any subject will necessitate the re-examination of the candidate in the department to which that subject belongs.

Candidates who have passed the examination will receive certificates for the work done, and these certificates, when presented in the following year, but not later, will be received in place of an examination, in the subjects mentioned in them.

ADMISSION BY CERTIFICATE

In place of examinations, certificates will be received from preparatory schools which have been approved by vote of the Faculty. No school will be approved that has not an established, regular, and thorough course of preparation for college, and all schools which desire to be placed on the list of "approved schools" should send to the Dean of the Faculty for a printed form of application, containing the conditions for the approval of a school and the requirements which must be met. Approval of a school will be withdrawn whenever it appears that the work of the school does not reach the standard desired by the College. No certificate will be accepted from a private tutor or instructor.

Certificates should meet the requirements in full; the candidate will be examined on any requirement not covered by the certificate, but if the certificate makes exceptions in more than a third of the departments of study required for admission, it will not be accepted, and the candidate will be examined on all the requirements.

Certificates must be made out on blanks furnished by the Dean of the Faculty, and it is requested that they be sent to him at the close of the school year.

Candidates who enter by complete certificates will register at the Dean's office on Tuesday and Wednesday, September 22 and 23.

Dartmouth College is represented on the New England College Entrance Certificate Board, a Board established for the purpose of receiving, examining, and acting upon all applications of schools that ask for the privilege of certification.

No certificate will be received *after January first, 1904*, from any school in New England which has not been approved by this Board. Professor Nathaniel F. Davis, Secretary, 159 Brown St., Providence, R. I.

MATRICULATION

After registration and the acceptance of the examination papers or certificates at the office of the Dean, and the payment of the tuition for the first semester at the office of the Treasurer, the student will receive his matriculation papers from the President of the College.

Freshmen whose attendance is unsatisfactory, or who have serious *deficiencies* in scholarship, or who have *failures* amounting to six or more hours, or who having entered on condition show by the unsatisfactory character of their current work that they are unable to continue without further preparation, will be dropped at the close of the first semester. If a student admitted on certificate, and subsequently dropped from the Freshman class on account of poor scholarship applies for readmission to College, he must pass examination in those subjects in which he failed to make recitation standing to the time of his leaving College; if admitted by examination with conditions, he must remove the conditions by examination before being readmitted.

SPECIAL STUDENTS

Persons who desire to attend the lectures and recitations of particular departments only, may have that privilege, provided they give evidence that they are fully prepared to enter upon the studies of such departments, and provided also, they represent so much general training as may entitle them to undertake college work. Students who are enrolled as members of classes, but who fail in one or more studies, are not allowed to become special students, but are required, if they remain in College, to make up the studies in which they failed, with the class below. No provision is made for partial in distinction from special students.

ADVANCED STANDING

Candidates for advanced standing are examined, in addition to the studies required for admission, in those which have been pursued by the class which they propose to enter, or in others equivalent to them.

Certificates from schools are not accepted for studies which are offered for advanced standing.

Students from other Colleges, which require the same or equal terms of admission with Dartmouth, and which offer the same or equal courses of study, will be credited with the work for which they bring the record of full standing in their letters of transfer.

CREDIT FOR WORK OUTSIDE OF COLLEGE COURSES

No time credit for work outside the College courses shall be allowed without examination.

Time credit for work done outside the College courses, and offered as an equivalent for College work, may be allowed after the applicant has passed an examination in the course for which he wishes credit.

The omission of elementary courses in any department, without time credit, and admission to more advanced courses in the same department, may be permitted without examination in cases in which certification admits to advanced courses: in other cases only upon examination.

The substitution of a course in one department for a required course in another department can be permitted only upon a satisfactory examination in the required course.

RESIDENT GRADUATE STUDENTS

Instructions to graduate students who wish to take courses leading to graduate degrees, may be found on page 170.

Graduates of this or any other college, desirous of pursuing their studies in residence, without reference to a degree, may attend the public lectures of the College, and use the library, laboratories, apparatus, and scientific collections, subject to such rules as the Faculty may establish.

COURSES OF INSTRUCTION

The courses of instruction offered lead to the degree of Bachelor of Arts or of Bachelor of Science, (Chandler Scientific Course).

Students who entered as candidates for the degree of Bachelor of Letters, previous to the abolition of that degree, may graduate as Bachelors of Letters, or may secure the degree of Bachelor of Arts or Bachelor of Science, by meeting the requirements indicated under the "Group System."

The Group System which goes into effect the present year does not change the studies of Freshman year which are still prescribed. For outline of the studies of Freshman year, see page 155.

After Freshman year the different departments of instruction are arranged under three groups, namely, "Language and Literature," "Mathematics and the Physical and Natural Sciences," and "History, the Social Sciences, and Philosophy." The courses in each department of instruction are graded as A, B, or C; A being the lowest, and C the highest. An A course usually signifies the first or second year's work in College; a B course, the second or third year's work; a C course, the third or fourth year's work. A Minor study consists of at least twelve semester hours in one department; six semester hours in each of two grades, A, B, or C. A Major study consists of at least eighteen semester hours in one department; at least six semester hours in each grade A, B, and C. In certain cases a Major or a Minor is made up from a combination of courses in the different departments as indicated under "Departments of Instruction."

Courses graded as "B or C" count as B courses when only the regular work of the course is required, but may count as C courses when additional work is assigned by the instructor.

GROUP SYSTEM OF STUDIES

The Group System requires that a candidate for the Bachelor's degree must complete a Major study in one of the three groups, and a Minor study in *each* of the other two groups.

The following are the groups of studies : —

GROUP I	GROUP II	GROUP III
LANGUAGE AND LITERATURE	MATHEMATICS AND THE NATURAL AND PHYSICAL SCIENCES	HISTORY, THE SOCIAL SCIENCES, AND PHILOSOPHY
<i>Comprising the Departments of</i>	<i>Comprising the Departments of</i>	<i>Comprising the Departments of</i>
Greek	Mathematics	History
Latin	Graphics	Modern History
English	Engineering	The Far East
French	Physics	Economics
Spanish	Astronomy	Political Science
Italian	Chemistry	Sociology
German	Biology	Philosophy
Philology	Anatomy and Physiology	Education
	Geology	Music
	Mineralogy	Archæology

For the Bachelor's degree sixteen (16) hours in each semester are required in Freshman year, fifteen (15) to eighteen (18) hours in each semester of Sophomore and Junior years, and not less than twelve (12) hours in each semester of Senior year, — the whole amounting to not less than one hundred and twenty-two (122) semester hours.

Though the requirement for graduation is 122 semester hours, the curriculum is based upon courses rather than upon years; any student may reduce the time required for a degree by such increase in the number of courses each year as, in the judgment of the Faculty, his standing will allow. This privilege is not open to those who have deficiencies due to failure in courses previously taken.

Members of the Chandler Scientific course may substitute for the elective studies of Senior year the work of the first year in the Thayer.

School of Civil Engineering. They may be candidates for the degree of Bachelor of Science with their class, and after a second year of work in the Thayer School they may receive the degree of Civil Engineer. The conditions for such an election will be found under the Thayer School of Civil Engineering.

Candidates for either Bachelor's degree offered by the College who have met the requirements in electives and in rank, as outlined on page 213, under Conditions for Admission to the Tuck School of Administration and Finance, may elect the first-year course in the Tuck School for their work of Senior year. At the close of the year, they may graduate from the College with the Bachelor's degree for which they entered. After a year of graduate study in the Tuck School, they may receive the degree of Master of Commercial Science. The conditions for such an election may be found under The Tuck School.

Students who intend to enter the Medical Department may receive credit for the first year of the medical course by electing such studies as are prescribed for that year, and by registering in the Medical School at the opening of Senior year. The conditions for such an election will be found under the Medical School.

RULES GOVERNING THE ELECTION OF STUDIES

(1) Every student, in making his elections, must meet the requirements and conform to the conditions of the studies he may choose, as set forth in the "Departments of Instruction," and in the "Outline of Studies." The choice of any elective involves the same requirement in respect to attendance and scholarship as for a prescribed study.

(2) Elections for the second Semester must be communicated to the Dean, in writing, on or before January 10, and for the first Semester on or before June 1.

(3) A student may elect studies assigned to a class below his own, subject to the approval of the instructor concerned. No student will be allowed to elect a study with a class above his own, or any group of electives involving more than a total number of eighteen exercises a week, except by vote of the Committee on Administration.

(4) Any student failing to make his elections at the specified time shall pay into the College Treasury three dollars.

(5) No student will be allowed to change his elections, except by

special permission of the Dean, when found to be necessary, and after the payment of two dollars into the College Treasury.

(6) The Faculty will ordinarily withdraw any elective study not chosen by at least four students.

A student in making his elections for Sophomore year should indicate in which *group* he intends to secure a Major, and in making his elections for Junior year should indicate the *departments* in which he intends to secure his Major and his two Minors.

To secure credit for a Minor study in any department, a student must complete courses in that department amounting to six hours in courses graded A, and six hours in courses graded B.

To secure credit for a Major study in any department, a student must complete courses in that department amounting to six hours in courses graded A, six hours in courses graded B, and six hours in courses graded C.

Any exceptions to the above requirements in number of hours, or in the limitations to a single department, will be found after the description of courses in those departments in which exceptions are made.

DEPARTMENTS OF INSTRUCTION

GREEK

I

GREEK LITERATURE AND HISTORY

Sophomores who intend to elect only one year of Greek are advised to take Courses 4 and 5. Those who continue Greek after Sophomore year may elect from the group 7 to 12, or from the group 3 to 6.

1. *Herodotus : Plato.*

A

Professor G. D. LORD and Mr. HUSBAND. First Semester, 3 hrs.

(a) Herodotus, Books VI. and VII. Plato, *Apology*. Writing Greek based on the texts read. This course is given to Division I.

(b) Herodotus, Books VI. and VII. Systematic review of forms and syntax. This course is given to Division II.

2. *Homer.*

A

Professor C. D. ADAMS and Mr. HUSBAND.

Second Semester, 3 hrs.

The *Odyssey*. Systematic study of Epic forms and syntax. Lectures on the beginnings of Greek Literature and on Homeric Antiquities.

3. *Plato.*

B or C

Professor C. D. ADAMS.

First Semester, 3 hrs.

The *Phædo* and selections. Introduction to Platonism. Collateral reading in the History of Greek Philosophy.

4. *Demosthenes.*

B or C

Professor C. D. ADAMS.

Second Semester, 3 hrs.

De Corona. The reading course is preceded by a careful study of the history of Greece from the close of the Peloponnesian War to

the death of Alexander, with lectures upon the significance of the struggle with Philip. The oration is studied with special emphasis upon its rhetorical features.

5. *Sophocles.*

B or C

Mr. HUSBAND.

First Semester, 3 hrs.

Œdipus Tyrannus. This course is designed as a general introduction to Drama. Lectures on the development of Greek Drama.

6. *Aristophanes.*

B or C

Mr. HUSBAND.

Second Semester, 3 hrs.

The *Clouds* and the *Acharnians* will be read in the original, and other comedies in translation, to ascertain the attitude of comic writers and the people toward public officials and current events. One comedy will be analyzed carefully as an example of the literary structure of a comedy.

7. *Æschylus.*

C

Professor G. D. LORD.

First Semester, 3 hrs.

The *Oresteia*. The three dramas will be studied in part by class translation, and in part by reading and lectures by the instructor. Lectures on dramatic criticism.

8. *Epic Poetry.*

C

Professor G. D. LORD.

Second Semester, 3 hrs.

History of Homeric Criticism. The *Iliad* will be read with reference to special problems, particularly in theories of its European origin.

Courses 8 and 8a are offered in alternate years.

8a. *Elegiac, Iambic, and Lyric Poets.*

C

Professor G. D. LORD.

Second Semester, 3 hrs.

Reading of selections. Historical studies in selected odes of Pindar.

[Offered in 1903-1904.]

9. *Greek Oratory.*

C

Professor C. D. ADAMS.

First Semester, 3 hrs.

Studies in the development of Greek Rhetoric and Oratory. Lectures and exercises in rhetorical criticism. The class will read

selections from Gorgias, Isocrates, the Rhetoric of Aristotle, and the works of some of the later rhetoricians; they will also study some of the speeches of Antiphon, Lysias, and Demosthenes.

10. *Late Greek.*

C

Professor C. D. ADAMS.

Second Semester, 3 hrs.

This course is designed to trace the passage of Greek Literature out into the Alexandrine and Roman fields. It includes the reading of selections from the later historians, Polybius, Diodorus, and Plutarch, from the Bucolic Poets, from the Alexandrine Scientists, and from other writers of the late period.

11. *Greek History.*

B

Professor C. D. ADAMS.

First Semester, 3 hrs.

Lectures, with collateral reading in Grote, Curtius, and Holm, and in the sources in English translations. The course will give a general view of the History of the Greek People, with particular attention to their permanent contributions to civilization. Much attention will be given to the period of transition following Alexander's conquests.

A knowledge of Greek is not required for this course. Students who are taking a Major or a Minor in Greek may count this course as three hours in Greek or in History; others may count it as three hours in History. [First offered in 1903-1904.]

12. *History of Greek Literature.*

C

Professor C. D. ADAMS.

Second Semester, 3 hrs.

Lectures upon the development of Greek Literature and its relation to the political and artistic development of the Greek people. Rapid reading of selections from some authors not included in the preceding courses. [Not offered in 1902-1903.]

II

GREEK LANGUAGE

13. *Elementary Greek.*

First Semester, 3 hrs.

A course for students who entered without Greek, and who wish to begin it in College. Study of the Grammar and of an elementary Reader.

14. *Elementary Greek (continued).*

Second Semester, 3 hrs.

Continuation of Course 13. Xenophon's *Anabasis*.15. *Sight Translation and Composition.*

B

Mr. HUSBAND.

First Semester, 1 hr.

The aim will be to gain facility in grasping the development of thought in a sentence and in a paragraph. Translation at hearing. Murray's *Greek Prose Composition*.

16. *Sight Translation and Composition.*

B

Mr. HUSBAND.

Second Semester, 1 hr.

Continuation of Course 15. Systematic study of the Cases, Adjectives, Pronouns, and Prepositions.

17. *Composition.*

B

Mr. HUSBAND.

First Semester, 1 hr.

Systematic study of the Tenses and of the Moods in independent clauses. Study of idioms and points of style in some one of the prose authors already read. Gildersleeve's *Syntax of Classical Greek* (Part I, 1900).

18. *Composition.*

B

Mr. HUSBAND.

Second Semester, 1 hr.

Continuation of Course 17. Study of the particles and of the Moods in subordinate clauses. Goodwin's *Moods and Tenses*.

20. *Historical Greek Grammar.*

C

Mr. HUSBAND.

Second Semester, 3 hrs.

Pronunciation, Syllabification, History of Inflections, Reading and Interpretation of inscriptions of each dialect, particularly in their application to the language of Homer. Linguistic analysis of a portion of the *Iliad*. The course will be preceded by a brief discussion of Indo-European Phonology and the place of Greek in the Indo-European Family. Open to Juniors and Seniors who have continued their work in Greek through Sophomore year. [After 1902-1903 Philology 3 will be made a prerequisite for this course.]

For courses in Greek Archæology see Archæology 3, 3a, and 4.

Students who have taken two courses of the group 3, 4, 5, 6, may count the other two as C courses by doing work prescribed by the instructor in addition to that required of the rest of the division.

LATIN

1. *Livy.*

A

Professors J. K. LORD, MOORE, and BURTON. First Semester, 3 hrs.

Selections from Books XXI and XXII, with reading at sight from Book I. Exercises in composition on the basis of the text.

2. *Horace and Terence.*

A

Professors J. K. LORD and MOORE. Second Semester, 3 hrs.

Selected *Odes* and *Epodes* of Horace; the *Phormio* of Terence; scenic antiquities.

3. *Tacitus and Catullus.*

B

Professor MOORE.

First Semester, 3 hrs.

The *Agricola* and *Germania* of Tacitus; lectures on Roman Britain, and on the Teutonic nations; selected poems of Catullus.

4. *Pliny and Martial.*

B

Professor MOORE.

Second Semester, 3 hrs.

A selection from the *Letters* of Pliny the Younger, and the *Epigrams* of Martial; history of Roman Literature.

5. *Cicero.*

B

Professor BURTON.

First Semester, 2 hrs.

The *Letters* of Cicero. Lectures on topics suggested by the text.

6. *Tacitus.*

B

Professor MOORE.

Second Semester, 2 hrs.

The *Histories* of Tacitus, with special reference to the style of the historian.

7. *Latin Composition.*

B

Professor BURTON.

First Semester, 1 hr.

The passages will be chiefly from the *De Senectute* of Cicero, a part of which will be read at sight in the class-room. This is an elemen-

tary course, and its main object is to give instruction and drill in the principles of Latin grammar, and the correct method of reading.

8. *Latin Composition.*

B

Professor J. K. LORD.

Second Semester, 1 hr.

Continuation of Course 7.

9. *Cicero.*

C

Professor J. K. LORD.

First Semester, 3 hrs.

Brutus. As far as possible, fragments of Roman oratory illustrative of Cicero's judgments will be read, and also passages from his other works that deal with his own theory and practice of oratory. Each student will be required to study carefully a speech of Cicero, and to prepare and to read before the class an essay upon it.

Courses 9 and 9a are offered in alternate years.

9a. *Latin Literature.*

C

Professor J. K. LORD.

First Semester, 3 hrs.

Selections from different authors illustrating the development of the literature. Lectures will be given upon the literature and upon individual authors, and essays and reports upon subjects assigned for special study in connection with the course will be required of the students.

[Offered in 1903-1904.]

10. *Horace.*

C

Professor J. K. LORD.

Second Semester, 3 hrs.

The *Satires* and *Epistles* of Horace, with special reference to the social life of the times.

Courses 10 and 10a are offered in alternate years.

10a. *Seneca.*

C

Professor J. K. LORD.

Second Semester, 3 hrs.

The *Essays* and *Epistles* of Seneca.

[Offered in 1903-1904.]

11. *Plautus.*

C

Professor BURTON.

First Semester, 3 hrs.

The *Trinummus* and the *Captivi* of Plautus will be read in the class, and in addition each student will be required to read one play by himself, and to make report upon it before the class.

Courses 11 and 11a are offered in alternate years.

11a. *Vergil.*

C

Professor BURTON.

First Semester, 3 hrs.

Translation and discussion of parts of each work. Investigation of the following subjects: epic, didactic, and pastoral poetry before Vergil; the life of Vergil; his sources and the influence of other writers upon him; the mediæval conception of Vergil.

[Offered in 1903-1904.]

12. *Justinian.*

C

Professor MOORE.

Second Semester, 3 hrs.

The *Institutes* of Justinian, with select passages from Gaius and the *Digest*.

13. *Latin Composition.*

B

Professor J. K. LORD.

First Semester, 1 hr.

A careful study of the idioms, constructions, and principles of arrangement in Latin composition will be made in connection with translations into Latin of passages based upon assigned portions of Latin authors, and of imitations of other portions set as models.

14. *Latin Composition.*

B

Professor J. K. LORD.

Second Semester, 1 hr.

This course is a continuation of Course 13.

15. *Latin Epigraphy I.*

C

Professor BURTON.

First Semester, 1 hr.

This course aims to acquaint students with the nature and use of inscriptions, together with the means available for their study. A selection from the inscriptions of the republic, mainly to illustrate the development of the language in its formative period.

16. *Latin Epigraphy II.*

C

Professor MOORE.

Second Semester, 1 hr.

The reading and interpretation of inscriptions from the time of the empire, chosen with reference to their historic interest, or their bearing upon life and manners. In exceptional cases, and with the consent of the instructor, this course may be elected by students who have not taken Course 15.

18. *Roman Satire.*

C

Professor BURTON.

Second Semester, 2 hrs.

The development of this form of literature will be considered in its various phases. The class will read selections from Merrill's *Fragments of Roman Satire* and some of the *Satires* of Horace, Persius, and Juvenal.

[Offered in 1903-1904.]

20. *Historical Latin Grammar.*

C

Mr. HUSBAND.

Second Semester, 3 hrs.

History of the Alphabet, Pronunciation, Syllabification, Development of sounds and Inflections. Allen's *Remnants of Early Latin* will be interpreted as a basis for the history of forms. This will be supplemented by readings from Lindsay's *The Latin Language*. Open to Juniors and Seniors who have continued their work in Latin through Sophomore Year. [After 1902-1903, Philology 3 will be made a prerequisite for this course.]

21 and 22. *Roman Historical Prose.*

Professor MOORE.

First and Second Semester, 2 hrs.

A detailed study of the syntax and style of Sallust in the *Jugurtha* and the fragments of his *Histories* form the groundwork of this course, which also includes the criticism of Cæsar's prose in the *Civil War*, for the purpose of comparison with the more ornate style, while the narrative Latin of uncultivated writers will be examined in the continuators of Cæsar.

Open only to graduate students.

23 and 24. *Latin Grammar.*

Mr. HUSBAND.

First and Second Semesters, 2 hrs.

A series of lectures by the instructor and reports by the members of the course upon subjects connected with the history of Latin sounds

and inflections; investigation in quantities, pronunciation and accent; systematic study of phonology and morphology; the reading of a considerable body of early Latin in the light of comparative grammar, with regular reports on assigned topics; Allen's *Remnants of Early Latin* will be read in connection with Course 20. Lindsay's *The Latin Language*, and Brugmann's *Grundriss der vergleichenden Grammatik*, Vols. I. and II. are the works to be most frequently consulted. An elementary knowledge of Phonetics (Philology 3) will be required.

Open only to graduate students.

For courses in Roman Archæology, see Archæology 5, 6, 7.

HEBREW

2. *Elementary.*

A

Dr. HUNTINGTON.

Second Semester, 3 hrs.

Bissell's *Practical Introductory Hebrew Grammar and Exercises*.
Reading at sight of chapters of *Genesis* and *Psalms*. Recitations.

ENGLISH

I

COMPOSITION, RHETORIC, AND CRITICISM

1 and 2. *English Composition and Rhetoric.*

A

Professor EMERY, and Messrs. KEYES and SCALES.

First and Second Semesters, 2 hrs.

An introduction to the study of Rhetoric, with the preparation and criticism of themes, and constant reference to printed examples of correct and incorrect style. (Pearson's *Principles of Composition*, Hill's *Principles of Rhetoric*, Newcomer's *Elements of Rhetoric*, and Wendell's *English Composition*.)

3. *English Composition and Literary Analysis.*

B

Mr. KEYES.

First Semester, 3 hrs.

This course is designed to acquaint the student with the finer elements of style, both in prose and in verse, and to enable him to use

his knowledge in effective literary expression. Daily reports and weekly themes, based upon a wide range of assigned readings. (Sherman's *Analytics of Literature*.)

4. *Composition and Analysis.*

B

Mr. KEYES.

Second Semester, 3 hrs.

This course is a continuation of Course 3, and is open only to such students as have completed that course.

5. *Advanced English Composition.*

B

Professor EMERY.

First Semester, 3 hrs.

Daily and weekly themes. This course is open to such Seniors and Juniors as are competent to pursue and profit by the course. (Gardiner's *Forms of Prose Literature*.)

6. *English Criticism.*

B

Professor EMERY.

Second Semester, 3 hrs.

The history and comparison of the various schools of criticism in England and America, with constant application of the principles of criticism to English and American writers. Daily and weekly reports on assigned readings will be required. This course is open only to such students as have passed in English 5. (Winchester's *Principles of Literary Criticism*.)

II

ORATORY AND ARGUMENTATION

8. *Oratory.*

A

Professor LAYCOCK and Mr. SCALES.

Second Semester, 1 hr.

A course in the elements of Public Speaking with weekly declamations and orations.

9. *Argumentative Composition and Oratory.*

B

Professor LAYCOCK and Mr. SCALES.

First Semester, 3 hrs.

Lectures, Recitations, Briefs, and Forensics, with daily practice in the application of rhetorical and oratorical principles to argumentation. (Baker's *Principles of Argumentation*.)

10. *Argumentative Oratory.*

B

Professor LAYCOCK and Mr. SCALES. Second Semester, 3 hrs.

This is a continuation of Course 9, and is open only to such students as have passed in that course. It will consist of the preparation of numerous briefs and forensics for debate, and daily practice in Oratorical Argumentation.

11. *Advanced Debate.*

C

Professor LAYCOCK. First Semester, 2 hrs.

This course is open only to such students as have passed in Courses 9 and 10 with a rank of not less than 80. It will consist of the preparation of numerous briefs and weekly practice in debate.

13. *Voice Culture and History of Oratory.*

C

Professor LAYCOCK. First Semester, 3 hrs.

Lectures, Recitations, and Exercises in Voice Culture. Theses will be written and delivered before the class by the students in this course. (*Hardwicke's History of Oratory and Orators.*) Open only to those who have had English 9 and 10.

English 13 and 13a will be given in alternate years.

13a. *Forensic Oratory.*

C

Professor LAYCOCK. First Semester, 3 hrs.

This course is planned especially for those who expect to become lawyers. (*Robinson's Forensic Oratory.*) Open only to those who have had English 9 and 10.

[Offered in 1903-1904.]

III

LITERATURE AND PHILOLOGY

15. *English Literature.*

B

Professor C. F. RICHARDSON. First Semester, 3 hrs.

Lectures, with assignments of readings, daily illustrations from representative authors, and written tests. This course is designed to set forth the philosophy of literature, and the relation of English writers to their predecessors and contemporaries.

History 1 and 2 are prerequisites for this course.

16. *American Literature.* B
Professor C. F. RICHARDSON. Second Semester, 3 hrs.
Lectures, recitations, and daily readings from representative authors, with discussions tending toward the development of independent critical power. (Richardson's *American Poetry and Fiction*.)
17. *Old English.* C
Professor HARDY. First Semester, 3 hrs.
Essentials of phonology and accidence. Reading of selections, mainly prose. This course is open to such Seniors and Juniors as have attained an average rank of 75 in all their previous English courses. (Bright's *Anglo-Saxon Reader*.)
19. *Middle English.* C
Professor C. F. RICHARDSON. First Semester, 3 hrs.
This course is open only to such students as have attained an average rank of 75 in all their previous English courses. (Skeat's *Student's Chaucer*.)
20. *English Lyric Poetry.* C
Professor C. F. RICHARDSON. Second Semester, 3 hrs.
(Palgrave's *Golden Treasury*.)
21. *The English Drama.* C
Professor EMERY. First Semester, 3 hrs.
Lectures on the history of the Drama, from the Miracle Plays to the Closing of the Theatres, with constant reading, and oral and written criticism of the plays considered.
22. *Shakespeare.* C
Professor EMERY. Second Semester, 3 hrs.
The critical and appreciative study of Shakespeare's plays, with lectures upon Shakespeare as a dramatic artist. Daily reports upon assigned readings will be required. This course is a continuation of Course 21, and is open only to such students as have passed in that course.

ROMANCE LANGUAGES

FRENCH

I

GRAMMAR AND TRANSLATION

1. *First Year Course.*

Messrs. UNDERWOOD and TAPSCOTT.

First Semester, 3 hrs.

Pronunciation; Elements of Grammar (Fraser and Squair, Part I) with oral and written exercises to illustrate their application; translation and sight-reading of easy French prose (Fraser and Squair's *French Reader*); memorizing and simple paraphrasing in French of portions of the text read.

2. *First Year Course.*

Messrs. UNDERWOOD and TAPSCOTT.

Second Semester, 3 hrs.

Continuation of Course 1. Translation and sight-reading of simple French prose (Mérimée, *Contes*; Dumas, *La Tulipe Noire*; short stories of Halévy, Margueritte, Maupassant and others). Easy dictations in French.

Courses 1 and 2 are prescribed for Freshmen in the Chandler Scientific Course who do not offer French for admission to college, and for Freshmen in the A.B. Course who do not elect German and who are not eligible to a higher course. Either course may be elected after Freshman year, by students in the A.B. Course not entitled to enter a more advanced course. A separate division (known as French 1-2 advanced) made up of students who have had a slight preparation in French will be formed for the sake of pursuing somewhat more advanced work than that of the other divisions.

3. *Second Year Course.*

A

Mr. UNDERWOOD.

First Semester, 3 hrs.

Grammar and composition-exercises to illustrate the essential rules of syntax; translation and sight-reading of ordinary French prose. (About, *le Roi des montagnes*; Dumas, *Monte-Cristo*; Michelet, *Extraits de l'histoire de France*; Mérimée, *Chronique du règne de*

Charles IX); memorizing and paraphrasing of portions of the text; drill in pronunciation; writing simple French at dictation.

4. *Second Year Course.*

A

Mr. UNDERWOOD.

Second Semester, 3 hrs.

Continuation of Course 3. Vigny, *la Canne de jonc*; Hugo, *Quatre-vingt-treize*; Balzac, *Eugénie Grandet*, and several modern French comedies.

5. *Third Year Course.*

A

Professor TAYLOR, Messrs. UNDERWOOD and TAPSCOTT.

First Semester, 3 hrs.

A careful review of syntax (Fraser and Squair's Grammar) with practice in writing in French connected passages of English based upon a French model; translation and sight-reading of more difficult French prose and poetry, with grammatical analyses involving a more thorough knowledge of syntax; dictations in French.

6. *Third Year Course.*

A

Professor TAYLOR, Messrs. UNDERWOOD and TAPSCOTT.

Second Semester, 3 hrs.

Continuation of Course 5. Reading of prose of the nineteenth century together with some nineteenth century drama towards the end of the year. (Hugo, *Quatre-vingt-treize*; Töpffer, *Voyages en zigzag*; Zola, *La Débâcle*; Labiche et Martin, *Le Voyage de M. Perrichon*; Augier, *Le Gendre de M. Poirier*.) Composition, syntax, and dictation.

Courses 5-6 are prescribed for Freshmen who offered two years of French for admission to college. They may be elected by students who have passed in Courses 3-4 or by those who have had an amount of French equivalent to the requirements for admission to the Chandler Scientific Course.

II

COMPOSITION AND CONVERSATION

7 and 8. *Elementary Courses.*

B

Professor TAYLOR.

First and Second Semesters, 2 hrs.

Cameron's *French Composition* will be used as a text-book the first part of the course, and will be followed by exercises based upon some

modern French prose work. In addition to the regular work in composition, there will be practice in writing from dictation. Open to students who have passed in Courses 3-4, or in the *advanced* division of Courses 1-2.

9 and 10. *Advanced Courses.*

B

Professor LANGLEY.

First and Second Semesters, 2 hrs.

François's *Advanced French Composition*. Practice in speaking and writing French. Dictations, readings, and talks in French. The aim of the course is to enable the student to understand readily spoken French, to train him in the use of common idioms, and to familiarize him with the characteristic features of French public and private life, as subject-matter for conversation. Open to students who have passed in Courses 5-6, and to such other students as may satisfy the instructor of their ability to do the work of the course.

III

LITERATURE

11. *General Survey of French Literature.*

B

Professors TAYLOR and LANGLEY, and Mr. SKINNER.

First Semester, 3 hrs.

In this course students will be given an opportunity to become acquainted with many of the greatest works in French literature. As a hand-book Petit de Julleville's *Histoire de la littérature française* in one volume will be used. Works of the following authors will be read: Corneille, Racine, Molière, Sévigné, Descartes, and Pascal. In addition to the reading, occasional themes in both French and English will be required from the students. Open to students who have passed in Courses 5-6, and, by permission of the instructor, to such others as may be able to do the work of the course.

12. *General Survey of French Literature.*

Professors TAYLOR and LANGLEY, and Mr. SKINNER.

B

Second Semester, 3 hrs.

Continuation of Course 11. Special attention in this course will be paid to authors of the eighteenth and nineteenth centuries. The

class will read selections from the works of Voltaire, Beaumarchais, Chénier, Chateaubriand, Hugo, Balzac, George Sand; Poems by Alfred de Musset, Alfred de Vigny, Th. Gautier, Leconte de Lisle, Verlaine, Heredia, and Sully-Prudhomme.

13. *Seventeenth Century Literature.*

C

Professors DOW and LANGLEY.

First Semester, 3 hrs.

A study of the origin and development of the various forms, with particular attention to the classic French theatre. Reading in class of the masterpieces of Corneille, Racine, Molière, La Fontaine, Sévigné and Boileau. Lectures, themes, collateral reading, and reports. Open to those students who have passed in Courses 11-12, and to such others as may satisfy the instructor of their ability to do the work of the course.

[Not offered in 1902-1903.]

14. *Seventeenth Century Literature.*

C

Professors DOW and LANGLEY.

Second Semester, 3 hrs.

Continuation of Course 13.

[Not offered in 1902-1903.]

15. *Eighteenth Century Literature.*

C

Mr. SKINNER.

First Semester, 3 hrs.

This course will be devoted chiefly to the study of Voltaire and Rousseau as embodying the ideas which had important bearing upon the French Revolution. Attention will be given also to Montesquieu, Buffon, Diderot, and the Encyclopedists. Later in the year the theatre of the eighteenth century and the development of the novel will be studied. In addition to lectures and readings in the classroom, a considerable amount of collateral reading of contemporary memoirs and correspondence will be required. Open to those students who have passed in Courses 11-12, and to such others as may satisfy the instructor of their ability to do the work of the course.

16. *Eighteenth Century Literature.*

C

Mr. SKINNER.

Second Semester, 3 hrs.

Continuation of Course 15.

17. *Nineteenth Century Literature.*

C

Professor LANGLEY.

First Semester, 3 hrs.

A study of the French and the foreign origins of romanticism in France; of the conflict between romanticism and classicism; of the origin and growth of realism; of the influence of the Northern literatures in France, and of the more recent movements in French literature. Pellissier's *Mouvement littéraire au XIX^e siècle* will be used as a hand-book. Lectures, reading in class, themes, weekly reports, and collateral reading. Open to those students who have passed in Courses 11-12, and to such others as may satisfy the instructor of their ability to do the work of the course.

18. *Nineteenth Century Literature.*

C

Professor LANGLEY.

Second Semester, 3 hrs.

Continuation of Course 17.

19. *Sixteenth Century Literature.*

C

Professor TAYLOR.

First Semester, 3 hrs.

This course is a study of the language and literature of France during the period of transition from mediæval to modern times. There will be introductory lectures upon the language and literature of the Old French period, followed by critical readings of Marot, Ronsard, Rabelais, Montaigne and other representative writers of the Renaissance period. *Le Seizième Siècle*, Darmestetter-Hatzfeld (Paris, 1893), will be used as a hand-book. Open, after consultation with the instructor, to those students who have had either of the other literature courses.

[Not offered in 1902-1903.]

20. *Sixteenth Century Literature.*

C

Professor TAYLOR.

Second Semester, 3 hrs.

Continuation of Course 19.

[Not offered in 1902-1903.]

In French a Minor is obtained by taking Courses 11-12 together with 7-8 or 9-10 in addition to 3-4 or 5-6; a Major by taking, in addition to the requirement for a Minor, one of 13-14, 15-16, 17-18, 19-20.

SPANISH

1 and 2. *Elementary Courses.*

A

Mr. SKINNER.

First and Second Semesters, 3 hrs.

Elementary Course in grammar, composition, and reading. The object of the course is to enable the student at the end of the year to translate easy English into Spanish, and to read with little difficulty modern prose.

The text-books used will be as follows: Ramsey's *Spanish Grammar*; Padre Isla, *Gil Blas*; Alarcón, *El Capitán Veneno*; Galdós, *Doña Perfecta*; Moratín, *El St. de las Niñas*; Ford's *Spanish Composition*.

Students are not allowed to elect Spanish 1 and 2, and Italian 1 and 2 in the same year. Students electing Spanish 1, must elect Spanish 2.

3 and 4. *Advanced Courses.*

B

Mr. SKINNER.

First and Second Semesters, 3 hrs.

In these courses attention will first be paid to the more important contemporary writers, and afterwards to the classic authors of the sixteenth and seventeenth centuries. The whole or parts of the following works will be read. Alarcón, *Historietas Nacionales*, Valera, *Pepita Jiménez*; Trueba, *El Cid Campeador*; Cervantes, *Don Quixote*; Calderon, *El Alcalde de Zalamea*; Guillén de Castro, *Las Mocedades del Cid*. Parts of Ticknor's *History of Spanish Literature* will be read.

ITALIAN

1. *Elementary Course.*

A

Professor LANGLEY.

First Semester, 3 hrs.

Elementary course in grammar, composition, and reading.

Text-books to be used: Grandgent's *Italian Grammar* and *Italian Composition*; Bowen's *Italian Reader*; Goldoni's *Il vero amico*; Manzoni's *I promessi sposi*; Barrili's *Una notte bizzarra*.

2. *Dante's Divina Commedia.*

A

Professor LANGLEY.

Second Semester, 3 hrs.

(Scartazzini's one volume edition.) Translation of the *Inferno*.
Lectures and collateral readings.

To count for a degree both of the above courses must be taken.

Students are not allowed to elect Italian 1 and 2 and Spanish
1 and 2 the same year.

3. *Italian Literature of the Fourteenth Century.*

B

Professor LANGLEY.

First Semester, 3 hrs.

Continuation of Dante; representative selections from the *Rime* of Petrarch (Carducci's edition), and the *Decamerone* of Boccaccio (Fornaciari, *Novelle scelte*). A study of the literature of the period, using as text-book Gaspari's *Storia della letteratura italiana*: lectures and collateral readings.

4. *General Survey of the Literature of the Renaissance.*

B

Professor LANGLEY.

Second Semester, 3 hrs.

Representative works of the following authors: Poliziano, Machiavelli, Bembo, Ariosto, Berni, Cellini, Vasari, Guarini, Tasso. As text-book D'Ancona e Bacci, *Manuale della letteratura italiana*, vols. 2 and 3. Lectures and collateral readings.

Courses 3 and 4 are open only to those who have passed in
Courses 1 and 2.

GERMAN

1 and 2. *Elementary (First Year).*

Professor HARDY, Messrs. STEWART and TAPSCOTT.

First and Second Semesters, 3 hrs.

(a) Pronunciation, (b) Memorizing and frequent repetition of easy colloquial sentences, (c) Rudiments of Grammar with exercises (Thomas's), (d) Reading selections from a German Reader, (e) Constant practice in translating into German easy variations upon sentences selected from the reading lesson, (f) Reading at sight.

Students taking Course 1 *must* also take Course 2 the next Semester. Courses 1 and 2 are prescribed for Freshmen in the Chandler Scientific Course who do not offer German for

admission to college, and for Freshmen in the A.B. Course who do not elect French on entering and are not eligible to Courses 3 and 4, or 5 and 6. Courses 1 and 2 may also be elected later than Freshman year by students in the A.B. Course not qualified to enter a more advanced course. These courses will not count toward Minors or Majors in the Group System.

3. *Elementary (Second Year).*

A

Professor HARDY and Mr. STEWART.

First Semester, 3 hrs.

Reading of narrative prose and a story or a comedy. Grammar, paraphrasing of texts read, word-formation.

Course 3 is a continuation of Courses 1 and 2. Students having had Courses 1 and 2, and wishing to continue their German, *must* choose Course 3. Students taking Course 3 are expected to elect Course 4 the next Semester.

4. *Elementary (Second Year).*

A

Professor HARDY and Mr. STEWART.

Second Semester, 3 hrs.

Continuation of Course 3.

5. *Advanced (Third Year).*

A

Professor W. A. ADAMS.

First Semester, 3 hrs.

Reading of narrative prose and a story. Review of grammar, paraphrasing of texts, word-formation.

6. *Advanced (Third Year).*

A

Mr. STEWART.

Second Semester, 3 hrs.

Continuation of Course 5. Narrative prose. Heine: Prose and Poems. Grammar, paraphrasing.

Courses 5 and 6 are prescribed for Freshmen who offered two years of German for admission to college. They may be elected by students who have passed in Courses 3 and 4 or by those who have had an amount of German equivalent to the requirements for admission to the Chandler Scientific Course.

7. *Modern German Prose.*

B

Mr. STEWART.

First Semester, 3 hrs.

Reading of a considerable amount of prose taken from representative modern writers.

Course 7 is open only to those who have previously had at least *two* years of German.

8. *Modern German Prose (continued).*

B

Mr. STEWART.

Second Semester, 3 hrs.

Continuation of Course 7.

9. *Lyrics and Ballads.*

B

Professor HARDY.

First Semester, 3 hrs.

Reading of a considerable amount of representative German lyrics and ballads. Study of authors and periods.

Course 9 is open only to those who have previously had at least *two* years of German. [Omitted in 1902-1903.]

11. *Lessing, Works and Life.*

B

Professor W. A. ADAMS.

First Semester, 3 hrs.

Reading of plays and prose writings with study of life. *Minna von Barnhelm*; *Emilia Galotti*; *Nathan der Weise*.

Course 11 is open only to those who have previously had at least *two* years of German. [Omitted in 1902-1903.]

12. *Schiller, Works and Life.*

B

Professor HARDY.

Second Semester, 3 hrs.

Reading of plays, poems, and prose writings with study of life. *Wilhelm Tell*; *Wallensteins Tod*; *Gedichte*; *Der dreissigjährige Krieg*.

Course 12 is open only to those who have previously had at least *two* years of German. [Omitted in 1902-1903.]

13. *German Drama.*

B

Professor W. A. ADAMS.

First Semester, 3 hrs.

Reading of plays with study of the drama. Selection made from the following list: Lessing: *Minna von Barnhelm*; *Emilia Galotti*. Goethe: *Götz von Berlichingen*; *Iphigenie auf Tauris*. Schiller: *Wilhelm Tell*.

14. *German Drama (continued).*

B

Professor W. A. ADAMS.

Second Semester, 3 hrs.

Continuation of Course 13. Selection made from the following list: Schiller: *Wallenstein*. Kleist: *Der Prinz von Homburg*. Freytag: *Die Journalisten*. Hauptmann: *Die versunkene Glocke*. Sudermann: *Johannes* (or *Die Heimat*).

Courses 13 and 14 are open only to those who have previously had at least *two* years of German.

15 and 16. *Composition and Conversation.*

B

Professor HARDY.

First and Second Semesters, 2 hrs.

Course 15 is open only to those who have previously had at least *two* years of German, and have attained an average rank of 70 in all their previous German courses. Course 16 is open only to those who have taken Course 15.

17. *Nineteenth Century Literature.*

C

Mr. STEWART.

First Semester, 3 hrs.

The history of German literature will be traced from the beginning of the romantic movement down to the present time with illustrative readings from various representative writers. The work will consist of lectures, recitations, reports, and outside reading.

Open only to Juniors and Seniors who have previously had at least *three* years of German.

19. *Goethe, Works and Life.*

C

Professor W. A. ADAMS.

First Semester, 3 hrs.

Poems; Götz von Berlichingen; Iphigenie.

20. *Goethe (continued).*

C

Professor W. A. ADAMS.

Second Semester, 3 hrs.

Continuation of Course 19. *Faust I* and parts of *Faust II*.

Courses 19 and 20 are open only to those who have previously had at least *two* years of German and ordinarily would be taken most satisfactorily after *three* years of work in German. Consent of the instructor is necessary for those who have previously had only *two* years of German. Course 20 may be chosen by those who have not taken Course 19.

21. *History of German Literature.*

C

Professor W. A. ADAMS.

First Semester, 3 hrs.

History of German Literature, supplemented by the reading of representative pieces of literature.

Permission of the instructor required before electing this course.

22. *History of German Literature (continued).*

C

Professor W. A. ADAMS.

Second Semester, 3 hrs.

Continuation of Course 21.

23. *Lessing.*

Professor W. A. ADAMS.

First Semester, 3 hrs.

Advanced course in Lessing. Open only to graduate students.

24. *Goethe.*

Professor W. A. ADAMS.

Second Semester, 3 hrs.

Advanced course in Goethe. Open only to graduate students.

PHILOLOGY AND LINGUISTICS

1. *Elementary Linguistics.*

A.

Mr. HUSBAND.

First Semester, 3 hrs.

A general non-technical course treating of the history of language; the relation existing among the most important European languages; the sounds of language, with description of the organs of speech and hearing; process of recording speech by means of the gramophone disc; principles of change in language; rise of dialects, with methods of determining good usage. Open to all Juniors and Seniors.

3. *Phonetics.*

B

Mr. HUSBAND.

First Semester, 1 hr.

Based chiefly upon a study of the English sound-system; brief description of the action of the organs of speech and hearing; methods of recording speech. Intended as a basis for the study of historical grammar and for the practical teaching of the sounds of language. Soames's *Introduction to the Study of Phonetics* (1900). Open to Juniors and Seniors who have obtained an average rank of 70 in their language work of Freshman and Sophomore years.

5. *Advanced Linguistics.*

C

Mr. HUSBAND.

First Semester, 3 hrs.

Analysis of languages to establish a basis of classification. Rise and differentiation of dialects. Analogical, phonetic, and semantic changes in language. Considerable attention will be given to the psychological aspect of the phenomena of language. Oertel's *Lectures on the Study of Language* will be used as a text-book, and collateral

readings will be required from other recent literature. Open only to those seniors who have had courses in Historical Grammar, in Greek, Latin, French, or English.

7. *Old English.*

C

Professor HARDY.

First Semester, 3 hrs.

See Course 17 under English.

9. *Middle English.*

C

Professor C. F. RICHARDSON.

First Semester, 3 hrs.

See Course 19 under English.

MATHEMATICS

1. *Algebra.*

A

Professor WORTHEN and Mr. HOLDEN.

First Semester, 4 hrs.

Quadratic and indeterminate equations, ratio and proportion, variation, series, binomial formula, logarithms, permutations and combinations, theory of equations, graphic algebra. (Wells's *College Algebra*.)

1a, 3. *Algebra and Spherical Trigonometry.*

A

Professor SHERMAN.

First Semester, 4 hrs.

(1a). *Algebra.* Logarithms, permutations and combinations, probability, continued fractions, summation of series, theory of equations, graphic algebra. (Wells's *College Algebra*.) (12 weeks.)

(3). *Spherical Trigonometry*, with applications to geodesy and astronomy. (Phillips and Strong.) (6 weeks.)

2, 4, 4a. *Solid Geometry, Plane and Spherical Trigonometry.*

A

Professor WORTHEN and Mr. HOLDEN.

Second Semester, 4 hrs.

(2). *Solid Geometry*, with original demonstrations, and the solution of problems relating to the surfaces and volumes treated. (Phillips and Fisher.) (7 weeks.)

(4). *Plane Trigonometry*, with applications to problems in surveying. (Phillips and Strong.) (7 weeks.)

(4a). *Spherical Trigonometry.* (Phillips and Strong.) (4 weeks.)

- 6, 8. *Analytic Geometry.* B
Professor SHERMAN. Second Semester, 4 hrs.
(6). Plane Analytic Geometry, including Higher Plane Curves.
(Hardy.) (13 weeks.)
(8). Analytic Geometry of three dimensions. (Hardy.) (5 weeks.)
- 5, 7, 9. *Analytic Geometry and Differential Calculus.* B
Professor WORTHEN. First Semester, 4 hrs.
(5). Plane Analytic Geometry, including Higher Plane Curves.
(Hardy.) (10 weeks.)
(7). Analytic Geometry of three dimensions. (Hardy.) (3 weeks.)
(9). Differential Calculus, with geometrical applications. (Hardy.)
(5 weeks.)
- 10, 10a. *Differential and Integral Calculus.* B
Professor WORTHEN. Second Semester, 4 hrs.
(10). Differential Calculus, with geometrical applications. (Hardy.)
(9 weeks.)
(10a). Integral Calculus, with applications to analytic geometry.
(Hardy.) (9 weeks.)
11. *Differential Calculus.* B
Professor SHERMAN. First Semester, 4 hrs.
Differential Calculus, with geometrical applications. (Hardy.)
12. *Integral Calculus.* B
Professor SHERMAN. Second Semester, 4 hrs.
Integral Calculus, with applications to analytic geometry, and including the elements of Differential Equations. (Murray.)
Courses 1, 2, 4, 4a, 5, 7, 9, 10, and 10a are intended for those who enter with Mathematics I; Courses 1a, 3, 6, 8, 11, and 12 are intended for those who enter with Mathematics II. Either of the above series is essential for the pursuit of the advanced courses in Engineering, Physics, and Astronomy.
13. *Differential Equations.* C
Professor WORTHEN. First Semester, 3 hrs.
Text-book, Murray.
14. *Determinants.* C
Professor SHERMAN. Second Semester, 2 hrs.
Text-book, Weld.

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| 15. <i>Quaternions.</i> | C |
| Professor SHERMAN. | First Semester, 3 hrs. |
| Text-book, Hardy. | |
| 16. <i>Elliptic Functions.</i> | C |
| Professor SHERMAN. | Second Semester, 2 hrs. |
| Text-book, Baker. | |
| 18. <i>Theory of Functions.</i> | C |
| Professor WORTHEN. | Second Semester, 3 hrs. |
| Text-book, Durege. | |

GRAPHICS

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| 1. <i>Mechanical Drawing.</i> | A |
| Professor HAZEN, Messrs. HOLDEN and SAMPSON. | First Semester, 3 hrs. |

An introductory course treating of the instruments used and the methods of using them. It includes the construction of engineering, mechanical, and architectural drawings, lettering and shading.

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| 2. <i>Mechanical Drawing.</i> | A |
| Professor HAZEN and Mr. HOLDEN. | Second Semester, 3 hrs. |

Tinting. Descriptive Geometry as applied to elementary projection drawing.

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| 3. <i>Descriptive Geometry.</i> | B |
| Professor HAZEN. | First Semester, 3 hrs. |

Descriptive Geometry, as applied to third angle projections and to the construction of projections and sections from models and actual structures; to the representation by drawings or projections of all geometrical magnitudes and to the intersections and tangencies of developable, double-curved, and warped surfaces.

- | | |
|---------------------------------|-------------------------|
| 4. <i>Descriptive Geometry.</i> | B |
| Professor HAZEN. | Second Semester, 3 hrs. |

Descriptive Geometry continued, and applied to spherical projections, shades and shadows, and linear perspective, axonometric projections, and cavalier perspective.

Courses 1, 2, 3, and 4 are required for the subsequent election of the Thayer Engineering Course.

- 4a. *Topographical and Machine Drawing.* C
Professor HAZEN. Second Semester, 2 hrs.

A course in topographical drawing and machine drawing, including tracing and blue-printing.

(THAYER SCHOOL COURSES)

5. *Plotting of Surveys.* C
Professors HAZEN and MANN. 40 half-days.

Plotting of land, stadia and railroad surveys.

This course constitutes a part of the Thayer School Courses 3, 4, and 5, and the half-days here given are included in the time allotted to those courses.

6. *Graphical Statics.* C
Professor HAZEN. 24 half-days.

This includes the first principles of the subject and the determination of the stresses in roof and bridge trusses.

This course is a part of the Thayer School Course 11, and the half-days here given are included in the time allotted to that course.

CIVIL ENGINEERING

2. *Surveying.* A
Professor HAZEN. Second Semester, 3 hrs.

Surveying with level, transit, and compass; the adjustments, care, and proper methods of using these instruments. This course includes the methods of determining areas; laying out and dividing land; practice with the solar transit used in surveying the public lands; determination of true meridian by the sun and polar star; levelling for profiles, city surveying, plotting, and computing from field notes taken in connection with the above work.

(THAYER SCHOOL COURSES)

3. *Surveying.* B
Professor MANN and Mr. HOLDEN. 72 half-days.

Theory, adjustments, and use of instruments, including the transit, theodolite, level, plane-table, solar transit, sextant, aneroid barometer,

and precise level ; land surveying ; topographical, hydrographical, and city surveying.

4. *Railroad Engineering.*

C

Professor HAZEN.

55 half-days.

This course includes a reconnaissance, preliminary and location surveys, and estimates of a line from two to three miles long through a country as difficult as is ordinarily met with ; also a study of the various forms of easement or transition curves.

5. *Higher Surveying.*

C

Professor MANN and Mr. HOLDEN.

56 half-days.

This course includes geodetical field-work and computations ; the determination of latitude and time by the sextant and transit ; azimuth by observations on the sun, Polaris, and some other star at elongation ; also photography applied to surveying. Theory and applications of Least Squares.

6. *Analytic Mechanics.*

C

Professor FLETCHER.

60 half-days.

Analytical Mechanics and general applications ; kinematics, dynamics ; statics and kinetics. Principles and working conditions, including friction and various applications. Elements of Mechanism.

7. *Masonry Constructions.*

B

Professors FLETCHER and HAZEN.

50 half-days.

This course includes a study of building stones, brick and mortar ; the building of stone, brick, and artificial stone masonry ; of foundations on land, on piles, and under water ; of masonry dams, retaining walls, bridge abutments and piers, culverts and arches ; a course in Practical Mineralogy and the testing of limes and cements in the laboratory.

8. *Stone-cutting.*

A

Professor HAZEN.

16 half-days.

Stone-cutting, including the discussion and designing of arches and wing walls.

9. *Mechanics of Materials.*

C

Professor MANN.

26 half-days.

Mechanics of Materials, including the theory of beams, columns, and shafts ; the methods of designing such elementary structures, and bridge and roof connections and joints.

10. *Highway Engineering.*

A

Professor HAZEN.

17 half-days.

This course considers the approved methods of constructing Macadam, Telford, gravel, and common earth roads; wood, stone, brick, and asphalt pavements for cities; and the proper methods of maintaining country roads and city pavements.

11. *Roofs and Bridges.*

C

Professors HAZEN and MANN.

36 half-days.

Roofs and Bridges, including analytical and graphical determination of the stresses in roof and bridge trusses. Design of a simple roof and a bridge.

12. *Materials of Engineering.*

C

Professors FLETCHER and MANN.

26 half-days.

Materials of Engineering, including wood, building stones, and the manufacture of iron and steel, the methods of testing all of these materials, and a study of the machines used in making these tests.

PHYSICS

1 and 2. *General Physics.*

A

Professor NICHOLS and Mr. BROWN.

First and Second Semesters, 3 hrs.

A study of the phenomena and simpler laws of Mechanics, Sound, Heat, Electricity, Magnetism and Light. Instruction is given by lectures with an ample number of illustrative experiments, by recitations and frequent examinations upon the lectures and text-book assignments.

Courses 1 and 2 belong together and should not be elected separately.

Earlier work in Physics is not required for entrance to these courses, but Mathematics 1 and 4, or their equivalents, are a prerequisite.

Physics 3 and 4 may be carried at the same time with 1 and 2. Students intending to specialize in the physical sciences, or who wish to complete a Minor in Physics early in the college course, are advised to elect courses 1, 2, 3, and 4 in sophomore year.

3. *Practical Physics.*

B

Professor HULL and Mr. FOX.

First Semester, 3 hrs.

A course in the theory and use of instruments of precision and in the experimental verification and application of physical laws. In particular, the micrometer and vernier calipers, the spherometer, and the micrometer eyepiece are used for measuring length; the seconds clock, stop watch, chronograph, and tuning fork for measuring time; spring, pan, and analytical balances, and inertia methods for measuring mass; the laws of the pendulum and of falling bodies are used to determine " g "; the laws of forces, moments, moments of inertia, centres of mass, Hooke's, Boyle's, and Charles's laws are verified; the densities of solids and liquids are measured in a number of ways; the laws of vibrating strings, the measurement of the period, wave-length, and velocity of propagation of wave disturbances in different media are determined. Experiments are performed in the study of thermometers, in calorimetry, in the expansion, due to heat, of solids, liquids, and gases, and in the measurement of specific and latent heats.

While care in manipulation and accuracy of observation are required of the student, it is also essential that he understand thoroughly the principles involved in the experiments. Oral reviews and tests will be held at convenient intervals to determine to what extent these principles have become a part of the student's knowledge.

A laboratory manual (Ames and Bliss) will be used by the student; other texts will be consulted. Laboratory fee, \$3.

4. *Practical Physics.*

B

Professor HULL and Mr. FOX.

Second Semester, 3 hrs.

A continuation of Course 3, extended into the study and experimental verification of the general laws of Electricity, Magnetism, and Light. The exercises include the mapping of electric and magnetic fields and lines of current-flow, the determination of the strength of magnetic fields, the measurement of the resistance of wires, liquids, batteries, and galvanometers, the measurement of electromotive force, capacity, temperature-coefficient of wires, the electrochemical and heat equivalent of an electric current, and the use of the D'Arsonval, Thomson, and tangent galvanometers.

In Light, the laws of photometers and mirrors, the measurement of the focal length and magnifying power of lenses and combinations of lenses, the index of refraction of glass, the spectra of a number of

substances, the wave lengths of light and the simple laws of polarization and double refraction are determined or verified. Laboratory fee, \$3.

5. *Analytic Mechanics.*

C

Professor HULL.

First Semester, 3 hrs.

A course of lectures on Statics, including the composition and resolution of forces acting on a particle and on a rigid body; efficiency of machines, sensitiveness of a balance, equilibrium of flexible strings and the elementary theory of attractions; kinematics; dynamics, the motion of projectiles, collision of elastic bodies, simple harmonic motions and central orbits. Without sacrificing the rigidity of mathematical deductions, recourse will be had, where occasion permits, to experimental illustrations. Text: Williamson and Tarleton. Prerequisites, Differential and Integral Calculus, and Physics 1 and 2.

6. *Wave Motion.*

C

Professor HULL.

Second Semester, 3 hrs.

A course in Wave Motion, with application to physical phenomena; Thermodynamics, including the elementary kinetic theory of gases, and the theory of solutions. Lectures and text references. Prerequisites, Physics 1 to 5 inclusive, Differential and Integral Calculus.

[Offered in 1903-1904.]

7. *Advanced Optics.*

C

Professor HULL.

First Semester, 3 hrs.

This course will consist of lectures, experimental and theoretical, recitations, and laboratory work. The domain covered will be nearly that of Preston's *Theory of Light*. Laboratory exercises in the measurement of the refractive index and dispersive power of glass, of the wave length of light by the grating and interferometer, and of the phenomena of diffraction and polarization, will be performed by the students. Prerequisites, Differential and Integral Calculus, and Physics 1 to 4. Laboratory fee, \$3.

[Offered in 1903-1904.]

8. *Electricity and Magnetism.*

C

Professor HULL.

Second Semester, 3 hrs.

A course of lectures and recitations on the theory of electricity and magnetism, following for the most part J. J. Thomson's text. Ap-

plications of the theory will be made by the students in the experimental study of electrometers, the inductive capacity of dielectrics, stream and equipotential lines, and galvanometers. Prerequisites, Physics 1 to 4 inclusive, Differential and Integral Calculus.

9. *Advanced Laboratory Work.*

C

Professor NICHOLS.

First Semester, 3 hrs.

A course in the accurate measurement of mass, length, and time. Prerequisites Physics 1 to 4 inclusive. Laboratory fee, \$5.

10. *Advanced Laboratory Work.*

C

Professor NICHOLS.

Second Semester, 3 hrs.

A course in electrical measurements. Prerequisites, Physics 1 to 4 inclusive. Laboratory fee, \$5.

11 and 12. *Physical Seminar.*

Professor NICHOLS.

First and Second Semesters, 2 hrs.

A seminary for the discussion of the current periodical literature and special research problems in Physics.

13 and 14. *Research Problems.*

Professors NICHOLS and HULL. First and Second Semesters, 3 hrs.

A course in investigation and research problems in Physics.

Of the foregoing, Courses 1 to 5 may be elected by undergraduate students only, 6 to 10 are open both to undergraduates and graduates, 11 to 14 are open only to graduate students.

The requirement for a Minor in Physics includes Courses 1, 2, 3, and 4. The requirement for a Major includes Courses 1, 2, 3, and 4, and any two of the advanced Courses 5, 6, 7, 8, 9, and 10, except the combination of 9 with 10.

ASTRONOMY

2. *Descriptive Astronomy.*

A

Mr. POOR.

Second Semester, 3 hrs.

General Astronomy. A recitation course in general descriptive Astronomy, supplemented by occasional lectures and visits to the Observatory. The previous study of elective courses in Mathematics

is not necessary, but a knowledge of Analytic Geometry is desirable. Prerequisite, Physics 1, 2. (Young's *Manual of Astronomy*.)

Course 2 will be offered in the first semester in 1903-1904.

2a. *Spherical Astronomy*.

B

Mr. POOR.

Second Semester, 3 hrs.

A recitation course in the relation of Spherical Trigonometry to Practical Astronomy with practice in computation. Students will be required to make observations with the Sextant, Meridian Circle, and Equatorial, and perform the necessary reductions. Prerequisites, Spherical Trigonometry, Differential and Integral Calculus, and Astronomy 2. (Campbell's *Practical Astronomy*.)

2b. *Mathematical Astronomy*.

B

Mr. POOR.

Second Semester, 3 hrs.

A course in such mathematical subjects as are necessary for a later study of Celestial Mechanics, as Interpolation, Mechanical Quadrature, Trigonometric Series, Bessel's Functions, etc. Students electing this course must have taken Astronomy 2 and Differential Equations, or must take the latter in connection with it.

[Not offered in 1902-1903.]

3. *Practical Astronomy*.

C

Mr. POOR.

First Semester, 3 hrs.

A continuation of Course 2a, consisting of a more complete development of some special subjects. The method of Least Squares will be briefly studied. Prerequisite, Astronomy 2a. (Chauvenet's *Practical Astronomy*.)

[Not offered in 1902-1903.]

3a. *Celestial Mechanics*.

C

Mr. POOR.

First Semester, 3 hrs.

Lectures and collateral reading. Prerequisites, Analytic Mechanics, Differential Equations, and Astronomy 2a. (Moulton's *Celestial Mechanics*.)

[Not offered in 1902-1903.]

4. *Practical Astronomy (or Astrophysics)*.

C

Mr. POOR.

Second Semester, 3 hrs.

A continuation of Course 3, or, if the class so desire, such observational work in Astrophysics as can be carried on at the Observatory,

supplemented by reading from astrophysical papers and the reduction of astrophysical observations. Prerequisite for Practical Astronomy, Astronomy 3 ; for Astrophysics, Astronomy 2a.

[Not offered in 1902-1903.]

4a. *Celestial Mechanics.*

C

Mr. POOR.

Second Semester, 3 hrs.

A continuation of Course 3a. Prerequisites, Astronomy 2b and 3a.

[Not offered in 1902-1903.]

CHEMISTRY

2. *Chemistry of the Non-Metallic Elements.*

A

Professor BARTLETT and Mr. L. B. RICHARDSON.

Second Semester, 3 hrs.

Lectures, recitations, and laboratory work. In this course special emphasis is laid upon the general principles of Chemistry, the Notation in its experimental and arithmetical meaning, upon Nomenclature and Terminology in their applications. Some familiarity with the properties of chemical substances and with processes is acquired. A beginner's course open to students who have had no chemistry in their preparation for College. Laboratory fee, \$2.

3. *Metallic Elements and their Compounds.*

A

Dr. BOLSER and Mr. RICHARDSON.

First Semester, 3 hrs.

A systematic course, reviewing the Non-Metallic Elements rapidly, developing the more essential theories, and treating the Metallic Elements and their compounds by lectures, recitations (Newth's *Inorganic Chemistry*), and by Qualitative Analysis in the laboratory. For completeness students who elect this course should elect Course 4 also. It divides the time about equally between one-hour recitations and two-hour laboratory exercises. Open to all students who have had Course 2, or its equivalent.

Entrance Physics, or Physics 1, is a desirable foundation for this course. Laboratory fee, \$3.

4. *Continuation of Course 3.*

A or B

Dr. BOLSER and Mr. RICHARDSON.

Second Semester, 3 hrs.

The study of the Metals and their compounds is completed, and more complex problems of Qualitative Analysis are introduced. Practice in Arithmetical calculations. Laboratory fee, \$3.

5. *The Carbon Compounds.*

B or C

Dr. BOLSER.

First Semester, 3 hrs.

The Carbon Compounds. Recitations (Remsen's *Organic Chemistry*) and lectures with regular written reviews. Laboratory work in preparation of representative compounds of the important series of organic chemistry and in methods for their identification. Open to students who have completed Courses 3 and 4. Laboratory fee, \$4.

6. *The Carbon Compounds.*

C

Dr. BOLSER.

Second Semester, 3 hrs.

This course is intended to supplement Course 5, and will deal primarily with the aromatic series. In the laboratory a few classical syntheses of important compounds will be studied. Parallel with the laboratory work, recitations and lectures will be held, having as subject matter the structural composition of representative members of various series of organic compounds, and the theoretical questions to which the study of these compounds give rise. Open only to students who have completed Course 5. Laboratory fee, \$4.

7. *Quantitative Analysis.*

B or C

Professor BARTLETT.

First Semester, 4 hrs.

A course in the laboratory arranged from standard text and reference books. Elementary gravimetric and volumetric methods. Open to students who have completed Courses 3 and 4. This course requires as a minimum the equivalent of seventy-two exercises of two hours each. Laboratory fee, \$4.

8a. *Quantitative Analysis (continued).*

C

Professor BARTLETT.

Second Semester, 4 hrs.

A continuation and advancement of Course 7 with more complex analyses and their applications. Open only to students who have completed Course 7. This course requires as a minimum the equivalent of seventy-two exercises of two hours each. Laboratory fee, \$4.

8b. *Quantitative Analysis.*

B or C

Professor BARTLETT.

Second Semester, 4 hrs.

A course corresponding to Course 7 and open only to students who have taken Course 5 in the first Semester. This course requires as a minimum the equivalent of seventy-two exercises of two hours each. Laboratory fee, \$4.

9, 10. *Physiological and Medical Chemistry.*

Professor BARTLETT.

First and Second Semesters, 3 hrs.

Physiological and Medical Chemistry. A course with laboratory, lecture and recitation work giving special attention to the carbohydrates and albumins, to Toxicology and the applications of chemistry to medicine. First Semester, and until the recess in the Second Semester; open only to students in the second year of the Medical School.

11. *Economic Chemistry.*

Professor BARTLETT.

First Semester, 3 hrs.

A course of ten lectures to the students of the Tuck School upon the economic relations of chemistry.

13, 14. *Organic Compounds.*

Dr. BOLSER.

First and Second Semesters, 3 hrs.

A course in the preparation of some of the more complex organic compounds and the theory of their structure.

Open only to graduate students.

15, 16. *Quantitative Problems.*

Professor BARTLETT.

Special quantitative problems with critical study of methods.

Open only to graduate students.

Required for the Thayer School, Courses 2, 3, 4; preliminary to the study of Medicine, Courses 2, 3, 4, 5, 8b; Courses 9 and 10 are for students in the second year of the Medical School only; Course 11 is given in the year 1902-1903; Courses 13, 14, 15, 16 are for graduate students only.

For students who have not presented chemistry for entrance a Minor consists of 2, 3, 4, and either 5 or 7. A Major consists of 2, 3, 4, and one of the following combinations: 5, 6, 7; or 5, 7, 8a; or 5, 6, 8b.

For students who have presented chemistry for entrance a Minor consists of 3, 4, and any one of the following combinations: 5, 6; or 7, 8a; or 5, 7; or 5, 8b. A Major consists of 3, 4, 5, 6, 7, 8a.

BIOLOGY

ZOÖLOGY AND BOTANY

The courses in Zoölogy and Botany are designed for three classes of students, namely: (*a*) for those who wish to know something of the elementary principles and aims of the science; (*b*) for those who intend to study medicine; and (*c*) for those who expect to teach the natural sciences, or who for any reason are interested in the subject and wish to give it special attention.

Courses 1, 1a, 2, 3, 4, 5, and 6, are elementary in character, and are intended for those who desire a comprehensive view of the subject. Those who intend to study medicine will find the following courses of especial value as a preparation for the study of human anatomy, physiology, and bacteriology: namely, Biology, 1, 1a, 2, 3, 4, 5, 7, 9, and 10. Courses 1, 1a, 2, and 10 will be useful to students of psychology.

While the above named courses have been modelled to meet the requirements of the general student and of those who have a medical career in view, the symmetry and continuity of the entire series of courses have been maintained in order to meet the requirements of those who expect to teach the natural sciences or to become professional biologists.

Biology 1 and 2 are continuous and dependent courses in Elementary Biology. They are designed for those students who desire some knowledge of the fundamental facts and principles of animal and plant life, and of the modern methods of solving biological problems.

Biology 1 should not be elected unless the student intends to take Biology 2. Biology 2 is open only to those who have completed the required work in Biology 1. Biology 1, 1a, and 2 are prerequisites for all other courses in Zoölogy and Botany.

1. *Elementary Biology (Botany).*

A

Mr. LYMAN.

First Semester, 3 hrs.

An introductory course giving a general survey of the vegetable kingdom. The lectures treat of some of the fundamental principles of Biology common to both plants and animals, and give a comprehensive review of the physiology, morphology and reproduction of plants, special attention being paid to the lower plants, and to the relation of fungi and bacteria to fermentation, putrefaction and disease. The laboratory work involves the constant use of the compound microscope in the examination of some of the principal plant types throughout the vegetable kingdom. (Coulter's *Plants*.) Laboratory fee, \$3.

1a. *The Principles of Biology.*

A

Professor PATTEN.

First Semester, 2 hrs.

A course of lectures on the structure and activities of plants and animals, with a discussion of the principal phenomena of nutrition, growth, reproduction, heredity, variations, distribution, natural selection and evolution. The course is designed especially for those who desire a brief statement of the principles and aims of the science, and as a preparation for Biology 1 and 2. It should be taken, if possible, with Biology 1.

2. *Elementary Biology (Zoölogy).*

A

Dr. GEROULD.

Second Semester, 3 hrs.

An introduction to the study of animal life. The structure and life history of a series of typical animals are observed and interpreted in the laboratory in order to gain an insight into the elementary principles of the science. Thus the differences between animals and plants, the evolution and interrelation of animal forms, the phenomena which lie at the basis of nutrition, growth, and heredity, the interaction which exists between animals and their environment, etc., are discussed in the lectures and illustrated in the laboratory. (T. J. Parker's *Practical Zoölogy*, Jordan and Kellogg's *Animal Life*.) Laboratory fee, \$3.

3. *Invertebrate Zoölogy.*

B

Dr. GEROULD.

First Semester, 3 hrs.

This course treats of the structure, activities, and life-history of invertebrate animals, and the problems that naturally arise from their

consideration. The embryology, histology, and physiology of examples from the various groups of invertebrates are studied in the laboratory in order to understand some of the relationships which exist among them, and as a preparation for other branches of biological science. The maturation, fertilization, and cleavage of the ovum, the formation of germ layers, larval development, the origin, structure and function of tissues and organs are made the subjects of observation and discussion. (Shipley and MacBride's *Elementary Zoölogy*, Korschelt and Heider's *Text-Book of Embryology*.) Laboratory fee, \$3.

4. *Comparative Anatomy of Vertebrates.*

B

Professor PATTEN.

Second Semester, 3 hrs.

The outlines of the classification of vertebrates, the homologies and the histological structure of vertebrate organs, the theories of the structure of the vertebrate head, and of the derivation of the Chordata will be discussed. The object of the course is to illustrate the evolution of the vertebrate type of animals from the lowest fishes and related forms, up to man, and to discuss some of the conditions that are coincident with, or determine, the progressive modification of various vertebrate organs. The course is intended for those especially interested in zoölogy, or for those who wish to lay a broad foundation for the study of human anatomy, physiology, or comparative psychology. (Wiedersheim's *Comparative Anatomy of Vertebrates*, Gray's *Anatomy*, and the embryological text-books of Minot, Hertwig-Mark, etc.) Laboratory fee, \$3.

5. *Cryptogamic Botany.*

B

Mr. LYMAN.

First Semester, 3 hrs.

This course treats of the outlines of classification of the lower plants, with careful examination and discussion of the structure, activities and life histories of typical representatives of the various groups, special attention being paid to those forms that are of pathogenic or economic interest. In field excursions the general methods of collection and preservation of cryptogams are studied. Instruction is given in the making of various kinds of artificial cultures and culture media. This course is designed for those who intend to study medicine, or to teach, or who desire a broad knowledge of the subject. Laboratory fee, \$3.

6. *Phanerogamic Botany.*

B

Mr. LYMAN.

Second Semester, 3 hrs.

A general course on the higher plants, continuing the work of Course 5, and completing the survey of the plant kingdom. It treats of the morphology and development of the flowering plants, embracing the main topics of their structure, functions and habits, together with their classification, distribution, adaptations and uses. Opportunity is given for the preparation of an herbarium illustrating some definite problem in ecology. A desirable course for those who wish to obtain a general knowledge of the higher plants. Laboratory fee, \$3.

7. *Cytology.*

C

Dr. GEROULD.

First Semester, 3 hrs.

This course treats of the structure and activities of animal and plant cells. The structure of protoplasm, its physical and chemical properties, the theories of heredity, cell-division, and the effects of nutrition, stimulation, and exhaustion of cells are discussed. Laboratory fee, \$3.

9. *Vertebrate Embryology.*

C

Professor PATTEN.

First Semester, 4 hrs.

A study of the Embryology of the frog, the chick, and a mammal. Open only to those who have done satisfactory work in Biology 1, 2, and 4. (Minot's *Human Embryology*, Hertwig's *Embryology of Vertebrates*, Marshall's *Vertebrate Embryology*.) Laboratory fee, \$3.

10. *Comparative Anatomy and Physiology of the Nervous System and Sense Organs.*

C

Dr. GEROULD.

Second Semester, 3 hrs.

A course of lectures and laboratory work illustrating the structure and evolution of the nervous system and sense organs, with special reference to their physiology. A desirable course for students of medicine or psychology. Open to students who have taken Courses 1 and 2. Laboratory fee, \$3.

11. *Systematic Morphology of Plants.*

C

Mr. LYMAN.

First or Second Semester, 3 hrs.

A field and laboratory course comprising the collection and preservation of material, the analysis of plants, together with assigned

readings on the morphology and systematic arrangement of the various groups. Stress may be laid on either the higher or the lower plants. May be elected in either semester, but students must consult the instructor before making the election. Laboratory fee, \$3.

12. *Vegetable Histology and Physiology.*

C

Mr. LYMAN.

Second Semester, 3 hrs.

A microscopic examination of the structure of the higher plants, and the development of tissues and organs, is combined with an experimental study of the properties of protoplasm and its relation to external stimuli, nutrition, growth, etc. Considerable attention is paid to methods of histological technique,—single and double staining, killing, fixing, embedding, sectioning, etc. This course must be preceded by Course 10 or its equivalent, and some knowledge of Physics and Chemistry is also desirable. Laboratory fee, \$3.

14. *Zoölogical Seminar.*

C

Professor PATTEN.

Second Semester, 2 hrs.

A discussion of special problems in Biology and a review of the current literature. Designed primarily for those students who intend to do graduate work in Biology. A reading knowledge of French and German is essential.

15 and 16. *Research work.*

Professor PATTEN.

First and Second Semesters.

Research courses in animal morphology leading to advanced degrees.

The requirement for a Minor in Biology is Courses 1, 1a, and 2, and any one of the following combinations: Courses 3-4, 3-5, 3-6, 4-5, or 5-6.

The requirement for a Major is any two of Courses 7, 9, 10, 11, 12, 14, in addition to the requirement for a Minor.

HUMAN ANATOMY AND PHYSIOLOGY

(MEDICAL SCHOOL COURSES)

HUMAN ANATOMY

1 and 2. *Human Anatomy.*

C

Professor FROST.

First Semester, 3 hrs.

Second Semester, 1 hr.

Osteology, arthrology and a preliminary study of the viscera. A course of recitations and demonstrations. Preparations from the Anatomical Museum are given out for study. Opportunity is offered to follow the dissections of the human body made by the men of the second and third years. The written examinations covering the work in osteology and arthrology, if satisfactory, are final. (Gray's *Anatomy*, last edition.)

PHYSIOLOGY

1 *Elementary.*

B

Professor W. T. SMITH.

First Semester, 3 hrs.

A course of lectures and quizzes upon the essential facts of Physiology, bringing them into relation as far as possible with future work.

2. *Laboratory Course.*

C

Dr. FRANZ.

Second Semester, 3 hrs.

A laboratory course upon the physiology of nerve and muscle, and of the blood and circulation. Each student will do the classic experiments in these subjects for himself. Text-books: Kirke (Blakiston's edition). For reference, American *Text-Book of Physiology*, Schaefer, Waller, Foster.

The Physiological Laboratory has recently been equipped with the latest apparatus. A sufficient number of complete sets has been provided to furnish one to every two students.

These include kymograph, induction coil and stimulating apparatus, tambours, apparatus to illustrate the circulation, etc.

MEDICAL PHYSICS

1. *Laboratory Course.*

A

Dr. FRANZ.

First Semester, 2 hrs.

A laboratory course with occasional informal lectures and recitations to correlate the work done in the laboratory. The topics included will be those essential to a proper understanding of physiology and allied subjects. (Daniell's *Physics for Students of Medicine*.)

The requirement for a Minor in Anatomy and Physiology is Biology 1, 1a, 2, 4, together with Medical Physics 1 and Physiology 1; for a Major, Human Anatomy 1, 2 and Physiology 2 in addition to the requirement for a Minor.

GEOLOGY

2. *Dynamical and Structural Geology.*

A

Dr. C. H. RICHARDSON.

Second Semester, 3 hrs.

This course will embrace a general survey of the whole field of geology, save the organic, and is planned to serve as an introduction to all work in the department. Some of the principal topics discussed are as follows: Nebular and meteoric hypotheses, the origin and distribution of soils, chemical elements most abundant in rocks, chemical and physical characteristics, formation and distribution of glaciers, the theories of volcanoes, classification of igneous and sedimentary rocks, mountain building and continental deformation. (Le Conte's *Elements of Geology*.)

3. *Organic Geology.*

B

Professor HITCHCOCK.

First Semester, 3 hrs.

This commences with a study of the sea-shore, marine deposits and the organisms specially concerned in the formation of pelagic ooze, limestones, coral reefs and islands. The topic of Historic Geology follows, discussing as fully as possible the evolution of the continent, the life and the origin of the present distribution of animals and plants. Lectures and recitations, with references to standard treatises.

Open only to those who have taken Course 2. A knowledge of Botany and Zoölogy is important for those who take Courses 3 and 5.

5. *Surface Geology.*

C

Professor HITCHCOCK.

First Semester, 3 hrs.

A course of lectures and field exercises ; for the latter, the facilities are remarkably favorable in the vicinity of Hanover. Accounts are given first of actual glaciers, and then studies are made of the phenomena, proving an age of ice formerly existing over more than half of the continent. The classification of the various glacial deposits furnishes data for determining the exact date of the introduction of man.

Open only to those who have taken Course 2.

6. *Local Geology.*

C

Professor HITCHCOCK.

Second Semester, 3 hrs.

Special study of the geology of Northern New England by readings, discussions, and field work. The amount of time required will be equivalent to three hours per week.

Open only to those who have taken all the preceding courses in Geology and Courses 9 and 10 in Mineralogy.

The requirement for a Minor in Geology is Geology 2, 3, 5, together with Mineralogy 1 ; for a Major, Geology 6, and Mineralogy 10, in addition to the requirement for a Minor.

Graduate students and candidates for the degree of Ph. D. will engage in field-work in areas specially assigned, and apply the principles of Petrography to specimens of their own collection. They will study the Reports of the several States, the larger manuals of Geikie and Dana, and special treatises, according to the particular subject assigned.

MINERALOGY

1. *Chemical Mineralogy.*

A

Dr. C. H. RICHARDSON.

First Semester, 3 hrs.

A systematic course in the detection of economic minerals by blow-pipe reactions and confirmatory chemical tests. The origin, differences, economic uses, and annual output of the various ores will be emphasized. Some attention will also be given to the essential and accessory constituents of building materials. (Moses and Parson's *Miner-*

alogy and Blowpipe Analysis.) Open only to those who have taken one course in Chemistry and continue Qualitative Analysis. Laboratory fee, \$3.

2. *Chemical Mineralogy and Lithology.*

A

Dr. RICHARDSON.

Second Semester, 3 hrs.

An advanced course in the study of rock-forming silicates, ores of the precious metals, various gems, and the different varieties of coal. Field work will be the method of instruction after the Easter recess. At various copper mines the student will become acquainted with methods of mining, hoisting, transportation, selection, and smelting of ores. The course enables the student to recognize at sight both the common and economic minerals. (Dana's *Manual of Mineralogy*, Large edition, for Reference.) Open only to those who have taken Course 1. Laboratory fee, \$3.

3. *Economic Mineralogy.*

B

Dr. RICHARDSON.

First Semester, 3 hrs.

The design of this course is to illustrate the modes of occurrence in nature of minerals and ores which have economic importance, to show the localities in which they are obtained, the processes used in their extraction and treatment, and their application to arts and industries. Ores and products of the precious metals, ores and products of the useful metals, glass, sands, and the ores of the alkaline earths and alkalis will be considered.

4. *Economic Mineralogy.*

B

Dr. RICHARDSON.

Second Semester, 3 hrs.

This is a continuation of the principles involved in Course 3, but may be taken independently of it. Building stones (the quarry products), carbon minerals, including coals, petroleum, natural gas, etc., will be studied.

The above economic courses are free electives.

5. *Industrial Mineralogy.*

Dr. RICHARDSON.

First Semester.

This is a brief course of lectures given before the students of the Tuck School upon the commercial importance, and industrial application of mineral products, and the causes of loss and failure in mining and quarrying.

7. *Applied Mineralogy and Lithology.*

Dr. RICHARDSON.

First Semester.

This course is designed especially for engineers and architects, and deals only with economic material. Special emphasis will be laid upon the methods of identification of the most useful minerals and building stones. The resistance of marbles, granites, sandstones, etc., to abrasion and compression, and the detection of injurious accessory constituents will be considered. (Moses and Parson's *Mineralogy and Blowpipe Analysis*.) Twenty-seven exercises. Laboratory fee, \$2.

Open only to students in the Thayer School.

9. *Physical Mineralogy.*

C

Dr. RICHARDSON.

First Semester, 3 hrs.

This course includes both text-book and laboratory work. As a text-book William's *Elements of Crystallography* will be used. In laboratory work the student will prove the methods of crystal growth, investigate the laws of combination, determine the geometrical form of crystal models, and identify morphologically both natural and artificial compounds. Laboratory fee, \$2.

10. *Optical Mineralogy.*

C

Dr. RICHARDSON.

Second Semester, 3 hrs.

This course consists of the identification of rock-forming minerals by their optical properties and the detection of injurious microlites in building material. The student may prepare microscopic thin sections and apply to them the principles of petrography. Laboratory fee, \$3.

Courses 9 and 10 are open only to those who have taken one year each of Physics and Mineralogy.

HISTORY

The courses in History are intended for two classes of students. (1) To those desiring an outline of historical development from ancient to modern times, are offered Courses 1-5. Courses 1 and 2, required for all later courses, give such training as is essential for the use of ordinary historical material. Courses 3-5 call for more exten-

sive and critical reading, and the writing of reports or essays to combine results and put into more definite practice the training previously given. (2) For students having some especial interest in the particular period covered, or desiring training to teach History, Courses 6, 7, and 8 are designed. These courses are devoted to a more critical study of selected topics in the period already covered in outline, and to the presentation of results in the form of reports or theses.

1. *Mediæval and Modern European History.*

A

Professors FOSTER and FAY, and Mr. YOUNG.

First Semester, 3 hrs.

Courses numbered 1 and 2 are treated as a continuous year's course in European History (exclusive of English) from the Teutonic Migrations to the close of the Seven Years' War (375-1763). Lectures; recitations on lectures, text-books, and additional reading; map and written work; conferences. A minimum amount of collateral reading is required of all, but it is hoped that the student's interest will lead him into independent reading beyond any requirements.

2. *Mediæval and Modern History (continued).*

A

Professors FOSTER and FAY, and Mr. YOUNG.

Second Semester, 3 hrs.

Methods of instruction as in Course 1.

Students taking Course 1 must take Course 2 the next Semester. Courses 1 and 2 are required for all subsequent courses in History, and for all courses in Modern History, Economics, Political Science, and for English 15.

3. *History of England to the Sixteenth Century.*

B or C

Professor FAY.

First Semester, 3 hrs.

This course will consist primarily of the political history of the English nation, with such reference as is necessary to constitutional, economic, and intellectual development. Lectures, recitations, and reports. Required for admission to Course 4.

4. *History of England and the British Empire from the Sixteenth Century.*

B or C

Professor FAY.

Second Semester, 3 hrs.

This is a continuation of Course 3, and will include, in addition to the history of Great Britain, the development of the British Empire

and the history of its colonies and dependencies. Open to those who have had Course 3. Lectures, recitations, and reports.

5. *American Colonial History to 1783.*

B or C

Professor FOSTER.

First Semester, 3 hrs.

This course is intended to trace the beginnings of the American Nation rather than the details of the history of the individual colonies. Emphasis is therefore laid on the European inheritance brought to this country by the colonists, their development of American institutions in the new environment, the expansion of population, the struggle between French and English for North America, the underlying causes of the Revolution, the growth of independence and union. A considerable amount of collateral reading is called for, in such books as Doyle, Fiske, Lodge's *Colonies*, Parkman, and Winsor. The student is also directed in the use of contemporary sources, and must base at least one written report upon them. Students who have not had a good course in English History in the secondary school are advised to precede this course by Courses 3 and 4. Lectures, recitations, and reports. Channing and Hart's *Guide to the Study of American History*; Thwaites's *Colonies*; Hart's *Formation of the Union*.

6. *Era of Renaissance and Reformation.*

B or C

Professor FOSTER.

Second Semester, 3 hrs.

This course traces the transformation of Mediæval into Modern Europe (1300-1600), from the age of Dante to that of Shakespeare and Calvin, and includes such topics as the following: The significant characteristics of the Middle Ages contrasted with those of modern times; rise of individual, city, national life; dismemberment of empire and papacy; early attempts at reform; the Renaissance; the Protestant Revolution; the Roman Catholic Reaction; the formation and organization of modern States. This course is more advanced than the earlier narrative courses (1-5), is intended for those especially interested in the period or desiring especial training in the study or teaching of history, and is open only to students who have attained an average rank of 75 in Courses 1 and 2. No text-book will be used. About one-half the time will be taken for lectures; the remainder for quizzes, discussions of general and assigned topics, and the reading of special reports.

7. *The Puritan State in Geneva, England, and Massachusetts.* C

Professor FOSTER.

First Semester, 3 hrs.

This is a study, based mainly on contemporary documents, of the Puritan experiment in government (1) in Geneva, under Calvin's influence, 1536-64; (2) in England in the sixteenth and seventeenth centuries; and (3) in Massachusetts Bay, 1630-1691. It is an advanced course intended for those who wish to do special work in History, who can read French or German, and who have taken History 1-6, or a satisfactory equivalent. Lectures, theses, and discussions.

8. *Political Development of Europe from 1600 to 1789.* B or C

Professor FAY.

Second Semester, 3 hrs.

This course will include a study of the establishment of the absolute monarchy in France by Richelieu and Louis XIV., and of its failure and collapse in the eighteenth century; the causes of the decline of Dutch commercial and maritime supremacy; and the rise of the Prussian Kingdom and the Russian Empire to their positions as great European Powers. Lectures, quizzes on reading, and written reports.

This course is open only to students who have passed satisfactorily in Courses 1 and 2. A knowledge of French or German is desirable.

11. *Greek History.*

B

Professor C. D. ADAMS.

First Semester, 3 hrs.

Lectures, with collateral reading in Grote, Curtius, and Holm, and in the sources in English translations. The course will give a general view of the History of the Greek People, with particular attention to their permanent contributions to civilization. Much attention will be given to the period of transition following Alexander's conquests. A knowledge of Greek is not required for this course. See Course 11 under Greek.

[First offered in 1903-1904.]

In 1902-1903 an opportunity for graduate work in the Reformation Era, American Colonial History and European History in the seventeenth and eighteenth centuries, will be offered to qualified students.

MODERN HISTORY

History 1 and 2 are prerequisites for all courses in Modern History.

1. *The Political History of Europe from the French Revolution to the Treaty of Berlin (1789-1878).* B or C

Professor J. H. SMITH.

First Semester, 3 hrs.

The course opens with lectures on the characteristics of the chief European peoples, which help explain their political history, on the state of things in the principal countries just before the outbreak of the French Revolution, and on the beginnings of that movement. From this point the core of the work is the mastery of a brief text-book, regarded as a full syllabus, and supplemented with formal lectures, comments, required and recommended readings, essays, discussions and conferences. Due attention is given to physical and political geography. While no attempt is made to teach a philosophy of history, the connection between effects and causes is dwelt upon. The chief stress is laid upon the broad movements of the period, and the vital process by which the Europe of a century and a quarter ago has become the Europe of recent times.

2. *Political History of the United States (1783-1877).* B or C

Professor J. H. SMITH.

Second Semester, 3 hrs.

The Political History of the United States from the close of the Revolutionary War to the close of the Reconstruction period (1783 to 1877). This course is conducted in the same general manner as the one just described, except that still more attention is paid to collateral reading and original sources. A special attempt is made to introduce students to the leading men of our political history.

A Minor in Modern History is obtained by combining History 1 and 2 with Courses 1 and 2 in Modern History. A Major is obtained by combining any four courses in History with Courses 1 and 2 in Modern History together with additional work assigned by the instructor.

THE FAR EAST

1 and 2. *The Far East.*

B

Dr. ASAKAWA.

First and Second Semesters, 3 hrs.

The two courses on this subject are given in succession in the two semesters. They are intended (1) for students who desire to deepen their liberal culture by studies in the great alien civilizations, and (2) for those who look forward to the career of the trader, diplomatist, or missionary, in the Eastern Asiatic countries. The first course will take up sociologically and in an explanatory manner such points in the history and civilization of the Chinese, Koreans and Japanese, as are considered to have a bearing on the present and future life of these nations. The second course will consist of the study of the diplomatic, commercial, and moral relations between the Far Eastern nations and the European and American peoples, and will end in a somewhat careful survey of existing conditions in East Asia, including the question of Chinese emigration and of Formosan colonization. These courses are neither lecture nor recitation courses. The student is expected to read his assignments critically, to base his report on his own studies and thinking, and to take an active part in the discussions in the classroom. The work of the second semester will be open only to those who have taken that of the first, and the two courses are intended for those seniors alone whose attainments are found upon conference to meet the requirements of the subject.

A Minor in The Far East is obtained by combining History 1 and 2, or Sociology 1 and 2, with the two courses in this subject.

ECONOMICS

History 1 and 2 are required for all courses in Economics.

Economics 1 and 2 are required for all other courses in Economics. Economics 9, 10, and 12 are open only to First Year Tuck men.

1. *Elementary Economics.*

A

Dr. WICKER and Mr. FIELD.

First Semester, 3 hrs.

The analysis of modern industrial society and the derivation of economic laws. Special attention will be paid to economic theory. Recitations with occasional lectures. (Bullock's *Introduction to the Study of Economics*.)

2. *Evolution of Industry and Commerce.*

A

Professor DIXON and Mr. FIELD.

Second Semester, 3 hrs.

Rapid sketch of the development of English industry and commerce to the 18th century, followed by a more careful study of the Industrial Revolution and its effects. This will be followed by an examination of the commercial and industrial development of the 19th century and the characteristics of economic society to-day in both Europe and America. Lectures and quizzes.

4. *Money, Credit, and Banking.*

B or C

Dr. WICKER.

Second Semester, 3 hrs.

The origin of money and its natural history studied with the view of forming accurate and correct ideas regarding the nature and importance of a proper monetary policy. The history of monetary legislation in the United States. A study of the history of banking, especially in the United States, followed by a detailed analysis and discussion of banking operations. The banking systems of modern nations studied and compared. Lectures and recitations. (White's *Money and Banking*, and Dunbar's *Theory and History of Banking*.)

5. *Advanced Economic Theory.*

C

Dr. WICKER.

First Semester, 3 hrs.

A rapid survey of the history of economic theory, with assigned readings and reports, will be followed by a critical comparative study of Marshall, Boehm-Bawerk, Patten, Clark, and other modern theorists. Lectures and recitations. (Marshall's *Principles of Economics*.)

6. *Public Finance.*

B or C

Dr. WICKER.

Second Semester, 3 hrs.

A study of the expenditures and revenues of government, federal, state, and local, — especially in the United States. Various forms of taxation. Government debts. Budgets and budgetary legislation. The relation of the Federal treasury to the money market and to general business conditions. Lectures and recitations. (Daniels's *Public Finance*.)

7. *History and Theory of Transportation.*

B or C

Professor DIXON.

First Semester, 3 hrs.

The history of railroad development in the United States and foreign countries with a study of the great railroad systems of the

world. Theories of rates, combination, consolidation, community of ownership, and government ownership and control, both here and abroad, including a study of the Interstate Commerce Commission and State Commissions. Water transportation, lake, river, canal, and ocean, its history and present condition, and its position as an aid to and competitor of railroads.

8. *Labor.*

B or C

Dr. WICKER.

Second Semester, 3 hrs.

A preliminary review of the economic theory of labor and wages, followed by a concrete, practical study of the present status of labor in the chief industrial nations. Among the more important topics to be treated are forms of remuneration, labor unions, strikes and boycotts, arbitration and conciliation, labor law in the United States and England. Lectures and recitations.

(TUCK SCHOOL COURSES)

9. *Commercial Geography: The Extractive Industries.*

B

Dr. PERSON.

First Semester, 3 hrs.

This course aims first to bring out the general principles of the relationship between man's environment and his industrial life, and then to take up a detailed study of the most important extractive industries, agriculture, horticulture, forestry, fishing, and mining. The technical aspect is especially emphasized, not with the object of developing specialists in any particular branch of one of these industries, but for the purpose of bringing out such technical information as is considered essential to the most thorough equipment of the director of a business enterprise. The study is not confined to any particular region, but involves a comparison of the conditions of development in all countries, showing how the natural conditions and processes of some countries have made for greater success than those of other countries.

[Open only to First Year Tuck men.]

10. *Studies in Statistics.*

C

Dr. PERSON.

Second Semester, 2 hrs.

Statistical methods and results will be studied through the investigation of various phases of economic development. Industrial statistics

will receive special attention. Some attention will be given to the sources and reliability of statistical data and to the methods of distinguishing true and false inferences.

[Open only to First Year Tuck men]

12. *Commercial Geography: The Manufacturing Industries.* B

Dr. PERSON.

Second Semester, 3 hrs.

This is a continuation of Course 9 of the first semester and aims to bring out information of the same practical value. It considers the technical and other conditions that have determined the development of the leading manufacturing industries; it studies the costs and processes in the stages of manufacture from the raw material to the completed product, and investigates the times, places and opportunities for the sale of the manufactured product.

[Open only to First Year Tuck men.]

POLITICAL SCIENCE

History 1 and 2 are prerequisites for all courses in Political Science.

2. *American Political Institutions.*

A

Second Semester, 2 hrs.

A concise survey of the origin, development, and practical working of American political institutions. This course will include an historical review of the formation of the Federal Constitution and a study of that Constitution as a body of living principles; the working relations of the Federal and State governments; the nature of the American State and the working of its government, and a brief examination of different forms of local and municipal governments. The general aim will be not only to prepare students by adequate information for the proper discharge of the duties of citizenship but also to stimulate in them a thoughtful patriotism and quicken their sense of civic responsibility. Recitations and lectures. This course is a prerequisite for all other courses in Political Science.

3. *American Constitutional Law.*

B

Professor COLBY.

First Semester, 2 hrs.

This course is designed to give students a knowledge of the general principles of the Constitutional Law of the United States, both federal and statal. Particular attention is given to the origin and development of the written constitution in America, to the formation of the early State constitutions, and the various sources of the Federal Constitution and to its text. Recitations and lectures. (Cooley's *Principles of Constitutional Law*.) Four hours a week for the first nine weeks.

4. *American Constitutional Law.*

C

Professor COLBY.

Second Semester, 1½ hrs.

(Advanced course, open only to students who have taken Course 3.) This course is intended for students who expect to enter the profession of law, and involves a critical examination of such parts of the Constitution as are not studied in Course 3. Recitations and lectures, supplemented by examination of leading cases. (Cooley's *Principles of Constitutional Law* and Boyd's *Cases on Constitutional Law*.) Three hours a week for the last nine weeks.

5. *Elementary Law.*

C

Professor COLBY and Mr. ALLEN.

First Semester, 3 hrs.

Outlines of Jurisprudence. This course is intended for students who expect to enter the profession of law, and is planned to give a general view of the whole field of the law and an introduction to its terminology and its fundamental ideas. It consists of (a) an historical survey of the Roman Law and of the English Common Law, (b) a critical examination of the fundamental ideas in both these systems of law, and (c) a study of Robinson's *Elements of American Jurisprudence*. Recitations and lectures.

6. *Elementary Law.*

C

Professor COLBY and Mr. ALLEN.

Second Semester, 3 hrs.

A continuation of Course 5, including the remaining chapters of Robinson's *Elements of American Jurisprudence* and Wambaugh's *Study of Cases*. Recitations and lectures.

Courses 5 and 6 are directly preparatory for the Law School. They will afford any student pursuing them with serious purpose opportunity to so qualify himself by knowledge of legal

ideas and terms, the main facts of legal history, and the method of legal reasoning, for the work of the Law School, that he may profit immediately from its courses of lectures and its study of cases. Any student electing Course 5 will be expected to elect Course 6.

8. *International Law.*

B

Professor COLBY.

Second Semester, 2 hrs.

This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized states, and their recent modifications by treaty. Recitations and lectures. (Lawrence's *International Law*.) Four hours a week for the last nine weeks.

10. *Comparative Politics.*

C

Second Semester, 2 hrs.

A study of The State, its nature and origin, form, functions, and ends, with a critical comparison of the present constitutions and the actual working of the governments of England, France, Germany, and the United States. (Wilson's *The State*; Lowell's *Governments and Political Parties of Continental Europe*.)

For further courses in Political Science, see Tuck School.

A Minor in Political Science is obtained by combining History 1, 2, and Political Science 2 with two courses in Political Science graded B.

A Major may be obtained by adding six hours graded C to the requirements for a Minor.

SOCIOLOGY

1. *Anthropology and Ethnology.*

B

Professor WELLS.

First Semester, 3 hrs.

This is an introductory course and should be taken by those who propose to take subsequent courses in Sociology. It is a study of man as the physical unit of society. It considers man's place in nature and the races and varieties of mankind. The method of treatment is both historical and descriptive. Each student is

required to provide himself with a good atlas and to make constant use of the library for notes and reports. Lectures and recitations.

2. *Anthropological Geography.*

B

Professor WELLS.

Second Semester, 3 hrs.

This considers man in relation to his physical environment, as determining his dispersal over the face of the earth, his mode of life, and the density of population. It traces the bearings of the natural surroundings upon man's physical and mental characteristics, and follows this fundamental and necessary adjustment through the history of the family and the State and in the evolution of the forms of economic life.

Open only to those who have taken Course 1.

3. *Social Statistics.*

C

Professor WELLS.

First Semester, 3 hrs.

This course begins with a study of Demography or the social groups given by Statistics. It considers the classification of the population in modern society due to physical or social causes. It then inquires into the results of Vital Statistics, such as the mortality from different diseases, birth and marriage rates under varying climatic and social conditions. Finally, the above data are brought into connection with Crime, Pauperism, and Social Reform. It is a study of the biological side of social life.

4. *Constructive Sociology.*

C

Professor WELLS.

Second Semester, 3 hrs.

This is an attempt to formulate the Laws of social evolution and social organization. It is an analysis of phenomena that are regarded as at once physical and mental, but whose ultimate explanation must be in terms of Social Psychology. The end constantly in view is a true interpretation of social facts in the concrete terms of science.

Open only to those who have received the previous consent of the instructor.

For further courses in Sociology, see Tuck School.

A Minor in Sociology is obtained by taking all four courses.

A Major is obtained by combining Biology 2 and 4 with all four courses in Sociology; or by combining History 1 and Economics 1 together with all four courses in Sociology.

PHILOSOPHY

1. *Psychology.*

A

Professor HORNE.

First Semester, 3 hrs.

An elementary course. Outlines of the science. Description and explanation of the phenomena of the mental life. Recitations and readings. (James's *Psychology*, *Briefer Course*.)

2. *Logic.*

A

Professor HORNE.

Second Semester, 3 hrs.

An introductory course. A study of the outlines of deductive and inductive reasoning with especial reference to fallacies, argumentation, the nature of thought, and the logic of certainty and probability. Recitations and readings. (Creighton's *Introductory Logic*, and Hibben's *Inductive Logic*.)

Philosophy 1 and 2 are open to Sophomores after approval by the instructor, and to Juniors and Seniors.

3. *Advanced Logic.*

B

Professor HORNE.

First Semester, 2 hrs.

The Science of Thought. This course considers not the conditions under which valid thinking is possible, but the nature of thinking itself. It is the purpose of the courses in Logic to consider the place of thought in reality. Recitations, readings, and a thesis. (Everett's *Science of Thought*.)

4. *Advanced Psychology.*

B

Professor HORNE.

Second Semester, 3 hrs.

This course is a natural continuation of Philosophy 1 which it presupposes. Special attention will be paid to the feelings and the will. It is the purpose of the courses in Psychology to acquaint college men with the essential elements of their own conscious life and with the general constituents of human nature. Recitations, readings, and a thesis. (Höffding's *Outlines of Psychology*.)

5. *Æsthetics.*

B

Professor CAMPBELL.

First Semester, 2 hrs.

Philosophy of the Fine Arts. Historical development of Architecture, Sculpture, Painting, Music, and Poetry. Recitations and

lectures with photographic and stereopticon illustrations. Students choose special topics for theses to be presented to the class. (Raymond, *Genesis of Art-Form*.)

For courses in Greek and Roman Architecture, Sculpture, and Painting, see Archæology 1-6. For a course in Literary A see English 20; in Musical Theory, Music 1 and 2.

6. *Introduction to Philosophy.*

C

Professor HORNE.

Second Semester, 3 hrs.

A general survey of the field of Philosophy, with especial reference to the definition of its problem, its spirit, its method, and its relation to the various sciences; the doctrine of nature and of mind, of knowledge, and of being. Recitations, readings, and a thesis. (Paulsen's *Introduction to Philosophy*.) Open only to Seniors.

7. *History of Philosophy.*

A

Professor CAMPBELL.

First Semester, 2 hrs.

Ancient Period. A study of the progressive steps in constructive thought from the earliest times to the birth of accredited Science and Philosophy at the close of the Socratic era. The History of Schools of thinking is treated in its concrete relation to national events, and involves an outline of the Philosophy of History. Lectures, recitations, and readings.

8. *Historical and Theoretical Ethics.*

A

Professor CAMPBELL.

Second Semester, 2 hrs.

It is the purpose of Ethics to establish the common foundation of the Moral, Social, and Political Sciences. The Historical exhibits the progressive theories until the founding of Modern Ethics. The Theoretical is an exposition of the principles of man's moral nature, and of the laws of its development in terms of environing conditions. Lectures, discussions, and readings.

9. *Practical Ethics.*

B

Professor CAMPBELL.

First Semester, 2 hrs.

Man as an ethical unit in practical affairs. A study of his mental equipment. Conscience and Will as related to responsibility. The law of veracity in business life. Rights of self-government and of

suffrage. Morality in its relations to custom, civil law, and fine art. A study of justice in the social medium. Scientific classification of duties as personal, social, civil, and theistic. Lectures, recitations, readings, discussions.

The importance of a correct knowledge of the Moral Life will commend itself. It is the intention so to arrange the schedule of studies that every undergraduate may have opportunity to elect at least one two-hour course in ethics. Course 9 may be taken before Course 8.

10. *Modern Philosophy.*

B

Professor CAMPBELL.

Second Semester, 2 hrs.

History of the national developments of philosophic thinking which have followed the Reformation, in Germany, Italy, France, Great Britain, and America; rise of great personal representatives of Modern Thought; also tendencies and Schools of Philosophy. This course may be taken without Course 7.

11. *Early Greek Philosophy.*

C

Professor CAMPBELL.

First Semester, 2 hrs.

A study in the original Greek of the teachings (extant) of the Pre-Socratic philosophers. Translations and discussions. (Fairbanks's *First Philosophers of Greece*.)

Open only to Seniors who are acquainted with the Greek language. A study of the later Greek philosophy is given under Greek 3.

12. *Philosophy of Religion.*

C

Professor CAMPBELL.

Second Semester, 2 hrs.

The unitary in ethnic religions; the Greek Pantheon as a system of Ethics; validation of theistic ideas; rational development of the spiritual life; sacred books; claims and dominant ideas of Christianity. Among the references are: Tiele's *Science of Religion*; Campbell's *Religion in Greek Literature*; Kellogg's *Genesis of Religion*; Harris's *Philosophical Basis of Theism*; Caird's *Philosophy of Religion*; Caldecott's *Philosophy of Religion*; Fairbairn's *Philosophy of Religion and of History*; Wright's *Scientific Aspects of Christian Evidences*,—the last used as a text-book. This course is intended quite as much for all who are seeking a rational basis for religious

opinions as for those who have in mind the ministerial work. Recitations, lectures, synopses of critical readings, discussions.

13 and 14. *Philosophy of Education.*

C

Professor HORNE.

First and Second Semesters, 2 hrs.

These courses are described under Education 3. and 4. Open to Seniors and Graduates.

15 and 16. *Philosophy of History.*

Professor CAMPBELL.

First and Second Semesters.

Origin and development of Civilization. Critical historical studies accompanied by lectures and recitations. A good knowledge of the German language is requisite. Ancient period, First Semester, Modern period, Second Semester.

17. *Advanced Ethics.*

Professor CAMPBELL.

First Semester.

Study and discussion of Kant's *Kritik der praktischen Vernunft*, or of Green's *Prolegomena*.

18 and 19. *Systematic Philosophy.*

Professor CAMPBELL.

First and Second Semesters.

Independent investigation at the sources of some important philosophical work, ancient or modern. Selection may be made from Greek, Latin, German, French, or English texts. It is the aim to develop a competency for exact research according to the methods of recent literary and historical criticism.

Courses 15, 16, 17, 18, and 19, are intended for graduate students, hours and days to be arranged with the instructor. They may, however, be elected by undergraduates who have taken all the preceding courses in Philosophy.

EDUCATION

History 1 and 2, and Philosophy 1 and 2 are strongly recommended as preparation for the courses in Education.

1. *History of Education.*

B

Mr. LEWIS.

First Semester, 3 hrs.

This course is designed to give the student an appreciation of the meaning of Education and an acquaintance with the rise and historical

solutions of its chief problems. The development of educational thought is traced in its relations to the development of civilization. Special stress is laid on education since the Renaissance. The main facts about the national school systems and the educational reformers are considered important, but no attempt is made in so brief a course to accumulate a mass of easily forgotten details. Rather the emphasis of the work is laid on an endeavor to understand the significance of the important facts for our present educational problems in the United States.

Recitations, supplementary readings, reports, and lectures.

2. *Introduction to Educational Theory.*

B

Mr. LEWIS.

Second Semester, 3 hrs.

The aim of this course is to present such well accepted principles and to discuss such important problems in the field of education as will be of value to the citizen, parent, and member of school board, as well as to the teacher. The following topics indicate the nature and scope of the work: The Meaning, Scope, and Aim of Education; Individual and Social Aspects; the relation of Psychology and Ethics to Educational Theory and Practice; Factors in Education; Elementary and Secondary Schools, their Special Aims and Courses of Study; Educational Values; Correlation of Studies; Flexibility; General Principles of Method; School Hygiene; Moral Training.

Lectures, discussion, required readings, and reports.

Courses 1 and 2 are open to Seniors and to Juniors by permission of the instructor.

3 and 4. *Philosophy of Education.*

C

Professor HORNE.

First and Second Semesters, 2 hrs.

Seminary in the Philosophy of Education. Subject for the year: The nature of education as presented by some of the great philosophers of the race. Reading, interpretation, and criticism of the educational writings of Plato, Aristotle, Bacon, Kant, Fichte, and Hegel. Two hours a week throughout the year.

Intended for Seniors and Graduates.

A Minor in Education is obtained by combining History 1 and 2 or Philosophy 1 and 2 with Education 1 and 2.

MUSIC

1. *Harmony.*

A

Director MORSE.

First Semester, 3 hrs.

Systematic study of intervals and chords, and their correct and effective use in four-part harmony. Ability to play four-part harmony (like a hymn tune) is necessary for this course. Emery's *Harmony*. Tyndal's *Sound*.

2. *Harmony (continued).*

A

Director MORSE.

Second Semester, 3 hrs.

Continuation and completion of Course 1. Harmonization of given melodies. Emery's *Harmony*; Boise; Richter; Gow.

ARCHÆOLOGY

1. *Greek Art.*

A

Professor G. D. LORD.

First Semester, 3 hrs.

This course, prefaced with an introduction on the Arts of Egypt, Assyria, and Phœnicia in their relation to Greek Art, presents the History of Greek Art in its most significant products of Architecture, Sculpture, and Painted Vases. The method is by observation and description. In this course, and in those that follow, constant use is made of the Sullivan collection of photographs purchased by contributions from Alumni. Text-book supplemented by discussions and lectures, five of these being illustrated by lantern slides. Open to all Sophomores.

2. *Greek Life.*

A

Professor G. D. LORD.

Second Semester, 3 hrs.

The Life of the Ancient Greeks, particularly the Athenians, from the evidence of the Monuments and of the Literature. By manual, assigned readings, and lectures. Open to all Sophomores.

3. *Greek Archaeology I.*

B

Professor G. D. LORD.

First Semester, 3 hrs.

This course informs the student of the sources and the more important characteristics of the materials and method for Greek

Archæology. Selections from Pausanias will be read, with critical commentary, covering a part of his description of the topography and monuments of Athens, Eleusis, Olympia, and Delphi.

[Courses 3 and 3a are offered in alternate years.]

3a. *Greek Archæology II, (Epigraphy).* C

Professor G. D. LORD.

First Semester, 3 hrs.

In this course the development and the more important characteristics of Attic Inscriptions will be studied by the aid of a carefully selected collection of squeezes. The last half of the course will be devoted to the study of a limited period in Athenian history where the sources are conspicuously Epigraphical.

[Offered in 1903-1904.]

4. *Greek Archæology III, (Sculpture).* C

Professor G. D. LORD.

Second Semester, 3 hrs.

Sculpture; study by readings and by lectures. Independent studies from casts and photographs are required. Ability to read French and German is very desirable for this course but will not be required at present.

5. *Roman Archæology I.* B

Professor MOORE.

First Semester, 2 hrs.

Architecture, with special reference to its origins, and to the modern employment of Roman forms. Themes based upon Vitruvius and Pliny the Elder, or upon recent French and German authorities.

6. *Roman Archæology II.* B

Professor MOORE.

Second Semester, 3 hrs.

Painting, Mosaic, Sculpture, and the minor arts. Themes, as in Course 5.

7. *Roman Topography.* B

Professor BURTON.

First Semester, 1 hr.

The development of the city of Rome and the history of its monuments, using the new Sullivan collection of Roman photographs.

For Roman Epigraphy see Latin 15 and 16.

OUTLINE OF STUDIES

FRESHMAN YEAR

FIRST SEMESTER

A.B.		B.S.	
PREScribed	hrs.	PREScribed	hrs.
Greek 1, or } French 5, or } German 5 }	3	French 5, or } German 5 } English 1	3 2
Latin 1	3	Mathematics 1a, 3	4
English 1	2	Hygiene	1
Mathematics 1	4		—
Hygiene	1		10
	—		
	13		
ELECTIVE (choose one)		ELECTIVE (Choose one language and one science.)	
	hrs.		hrs.
Greek 13 } French 1 } German 1 }	3	French 1 } German 1 } Graphics 1 } Physics 1 } Chemistry 3 } Biology 1 }	3 3 — 6 16
	—		—
	3		6
	16		16

SECOND SEMESTER

A.B.		B.S.	
PREScribed	hrs.	PREScribed	hrs.
Greek 2, or } French 6, or } German 6 }	3	French 6, or } German 6 } English 2, 8	3 3 4
Latin 2	3	Mathematics 6, 8	—
English 2, 8	3		10
Mathematics 2, 4, 4a	4		
	—		
	13		
ELECTIVE (choose one)		ELECTIVE (Choose one language and one science.)	
	hrs.		hrs.
Greek 14 } French 2 } German 2 }	3	French 2 } German 2 } Graphics 2 } Physics 2 } Chemistry 4 } Biology 2 }	3 3 — 6 16
	—		—
	3		6
	16		16

Students presenting Mathematics II for admission will take Mathematics 1a, 3; those presenting only Mathematics I, will take Mathematics 1.

SOPHOMORE YEAR

Each student must elect 15 to 18 hours.

FIRST SEMESTER

	hrs.		hrs.		hrs.
Greek 3	3	French 11	3	Physics 1	3
Greek 5	3	Spanish 1	3	Physics 3	3
Greek 15	1	Italian 1	3	Chemistry 3	3
Latin 3	3	German 1	3	Biology 1	3
Latin 5	2	German 3	3	Biology 1a	2
Latin 7	1	German 7	3	Biology 3	3
English 3	3	German 13	3	Biology 5	3
English 9	3	German 15	2	Mineralogy 1	3
French 1	3	Mathematics 5, 7, 9	4	History 1	3
French 3	3	Mathematics 11	4	Music 1	3
French 7	2	Graphics 3	3	Archæology 1	3
French 9	2				

SECOND SEMESTER

	hrs.		hrs.		hrs.
Greek 4	3	French 12	3	Physics 2	3
Greek 6	3	Spanish 2	3	Physics 4	3
Greek 16	1	Italian 2	3	Chemistry 2	3
Latin 4	3	German 2	3	Chemistry 4	3
Latin 6	2	German 4	3	Biology 2	3
Latin 8	1	German 8	3	Biology 4	3
English 4	3	German 14	3	Biology 6	3
English 10	3	German 16	2	Mineralogy 2	3
French 2	3	Mathematics 10, 10a	4	History 2	3
French 4	3	Mathematics 12	4	Music 2	3
French 8	2	Graphics 4	3	Archæology 2	3
French 10	2				

JUNIOR YEAR

Each student must elect 15 to 18 hours.

FIRST SEMESTER

	hrs.		hrs.		hrs.
Greek 7	3	French 17	3	Chemistry 3	3
Greek 9	3	Spanish 1	3	Chemistry 5	3
Greek 17	1	Spanish 3	3	Biology 3	3
Latin 9	3	Italian 1	3	Biology 5	3
Latin 11	3	Italian 3	3	Biology 7	3
Latin 13	1	German 7	3	Mineralogy 1	3
Latin 15	1	German 13	3	Mineralogy 3	3
English 5	3	German 15	2	History 3	3
English 11	2	German 17	3	History 5	3
English 13	3	German 19	3	Economics 1	3
English 15	3	Philology 1	3	Sociology 1	3
French 7	2	Philology 3	1	Philosophy 1	3
French 9	2	Mathematics 13	3	Music 1	3
French 11	3	Physics 3	3	Archæology 3	3
French 15	3	Physics 5	3	Archæology 5	2
				Archæology 7	1

SECOND SEMESTER

	hrs.		hrs.		hrs.
Greek 8	3	Spanish 2	3	Biology 4	3
Greek 10	3	Spanish 4	3	Biology 6	3
Greek 18	1	Italian 2	3	Biology 10	3
Greek 20	3	Italian 4	3	Geology 2	3
Latin 10	3	German 8	3	Mineralogy 2	3
Latin 12	3	German 14	3	Mineralogy 4	3
Latin 14	1	German 16	2	History 4	3
Latin 16	1	German 20	3	History 6	3
Latin 20	3	Mathematics 14	2	Economics 2	3
English 6	3	Graphics 4a	2	Political Science 2	2
English 16	3	Engineering 2	3	Sociology 2	3
French 8	2	Physics 4	3	Philosophy 2	3
French 10	2	Physics 8	3	Philosophy 4	3
French 12	3	Astronomy 2	3	Music 2	3
French 16	3	Chemistry 4	3	Archæology 4	3
French 18	3	Chemistry 6	3	Archæology 6	3

SENIOR YEAR

Each student must elect 12 to 15 hours.

FIRST SEMESTER

	hrs.		hrs.		hrs.
Greek 7	3	German 13	3	History 3	3
Greek 9	3	German 17	3	History 5	3
Greek 17	1	German 19	3	History 7	3
Latin 9	3	German 21	3	Modern History 1	3
Latin 11	3	Philology 3	1	The Far East 1	3
Latin 13	1	Philology 5	3	Economics 5	3
Latin 15	1	Mathematics 15	3	Economics 7	3
English 5	3	Physics 9	3	Political Science 3	2
English 11	2	Chemistry 5	3	Political Science 5	3
English 13	3	Chemistry 7	4	Sociology 3	3
English 17	3	Biology 7	3	Philosophy 3	2
English 19	3	Biology 9	4	Philosophy 5	2
English 21	3	Biology 11	3	Philosophy 7	2
French 15	3	Anatomy 1	3	Philosophy 9	2
French 17	3	Physiology 1	3	Philosophy 11	2
Spanish 3	3	Medical Physics 1	2	Education 1	3
Italian 3	3	Geology 3	3	Education 3	2
		Geology 5	3	Archæology 3	3
		Mineralogy 3	3	Archæology 5	2
		Mineralogy 9	3	Archæology 7	1

SECOND SEMESTER

	hrs.		hrs.		hrs.
Greek 8	3	Mathematics 16	2	Modern History 2	3
Greek 10	3	Mathematics 18	3	The Far East 2	3
Greek 18	1	Physics 10	3	Economics 4	3
Greek 20	3	Astronomy 2a	3	Economics 6	3
Latin 10	3	Astronomy 2b	3	Economics 8	3
Latin 12	3	Chemistry 6	3	Political Science 4	1½
Latin 14	1	Chemistry 8a	4	Political Science 6	3
Latin 16	1	Chemistry 8b	4	Political Science 8	2
Latin 20	3	Biology 10	3	Political Science 10	2
Hebrew 2	3	Biology 12	3	Sociology 4	3
English 6	3	Biology 14	2	Philosophy 4	3
English 20	3	Anatomy 2	1	Philosophy 6	3
English 22	3	Physiology 2	3	Philosophy 8	2
French 16	3	Geology 6	3	Philosophy 10	2
French 18	3	Mineralogy 4	3	Philosophy 12	2
Spanish 4	3	Mineralogy 10	3	Education 2	3
Italian 4	3	History 4	3	Education 4	2
German 14	3	History 6	3	Archæology 4	3
German 20	3	History 8	3	Archæology 6	3
German 22	3				

THAYER SCHOOL COURSE

Engineering 3	72 half-days	Engineering 8	16 half-days
Engineering 4	55 "	Engineering 9	26 "
Engineering 5	56 "	Engineering 10	17 "
Graphics 5	40 "	Engineering 11	36 "
Engineering 6	60 "	Engineering 12	26 "
Engineering 7	50 "	Graphics 6	24 "

TUCK SCHOOL COURSE

Each student must elect 18 hours each semester.

	hrs.		hrs.
Economics 4	3	Modern History 2	3
Economics 6	3	Commercial Geography	3
Economics 7	3	Sociology 3	3
Economics 8	3	Sociology 4	3
Economics 9	3	French A	2
Economics 10	2	French B	2
Economics 12	3	English Correspondence	1
Modern History 1	3	German or Spanish	2 or 3

ATTENDANCE AT EXERCISES

In Freshman year, attendance is required continuously through each term, at the morning, forenoon, and afternoon exercises. For Sophomore, Junior, and Senior years, the hours at which exercises occur are announced in a time-table published each Semester.

The *morning* exercise takes place on each week-day, either at 8.10 A. M., or (when there are two divisions in a subject) at 8.10 and 9 A. M. The *forenoon* exercise takes place on each week-day, either at 11 A. M., or at 10 and 11 A. M. The *afternoon* exercise takes place on each week-day, except Saturday, either at 1, 2, or 3 P. M.

Attendance is further required of all students at daily college prayers, on week-days at 7.50 A. M., and on Sundays at 5.30 P. M.; also at public worship on Sunday forenoon.

EXAMINATIONS

The regular examinations in each course of study are held in the middle and at the close of the year.

When a student is reported as *deficient* in any subject at the close of either semester, and that deficiency is of such a nature that it can be made up by an examination, such examination must be taken at a designated time, or no credit will be allowed for that course.

REPORTS OF STANDING

A report is sent twice yearly to the parent or guardian of each student, giving his standing in the class.

The standing given is, except where there are unexcused absences, the general average for scholarship. This average is determined by combining the marks in the different subjects, giving weight according to the number of hours.

Upon the scale used, 100 is the highest, and 0 the lowest mark; but no standing is obtained when the student's mark is below fifty in any study.

For each unexcused absence from recitation in excess of those

allowed in each subject (as many as the subject is scheduled hours per week) a deduction of 4 from the mark in that subject will be made.

For each unexcused absence from church and chapel, standing is lowered *one*. (Thus an average for scholarship of 85, with three unexcused absences, gives a standing of 82.)

The student's rank is determined by his position in one of five grades, viz.: A (90-100); B (80-90); C (70-80); D (60-70); E (50-60).

The co-operation of parents with the Faculty is earnestly solicited, in their efforts to maintain a high standard of scholarship and deportment in the College, and to promote the welfare of all committed to their care.

LOSS OF STANDING IN CLASS

A student loses standing in his class when he fails in courses of study which reduce his credits to less than eleven hours per week in either semester. Loss of standing causes enrollment in a lower class.

GRADUATE DEPARTMENT OF PEDAGOGY

PROFESSOR C. D. ADAMS, DIRECTOR. PROFESSORS J. K. LORD,
SHERMAN, WORTHEN, BARTLETT, PATTEN, FOSTER, W. A.
ADAMS, EMERY, NICHOLS, DOW, HORNE, AND MR. LEWIS.

The Graduate Department of Pedagogy gives a year of definite training to men holding the bachelor's degree who wish to prepare for the work of instruction or management in secondary schools. Special attention is given to the courses which prepare directly for college.

The work of this year is not designed as the beginning of a course of study in a specialty looking toward the doctor's degree, but as a course fitting the candidate for the immediate work of teaching in the secondary schools. This is obtained through two lines of work: the study of educational theory and history, and the study of one or more departments of elementary work, with a view to mastery of detail and methods of instruction. These courses are supplemented by lectures by men engaged in secondary education, and by detailed reports of the student's own examination of the daily work in some of the best schools.

The centre of the work of the department lies in the Pedagogical Seminary, of which every student of the department must be an active member, and in the advanced course of lectures on pedagogy required of all.

Grouped about this more general work are the courses in the several subjects as outlined below. Every student in the department must elect a major graduate course in some one subject; the time to be given to this course, and the collateral work that must accompany it, will be determined in each case by the instructor. The student may elect such additional courses as may be determined on conference with the Director, by whom all schedules must be approved. While the chief work of the year should be pedagogical, students will be expected to do some advanced work in their chosen fields of study

under the direction of the several instructors. The nature of this work will be determined by the needs of the individual student.

The following graduate courses are offered; all of these courses continue through the year.

PEDAGOGY

1. *Advanced Educational Theory.* Lectures, discussions, required readings and reports. Two exercises a week.

The theoretical part of this course will cover, as well as time permits, Applied Psychology, Organization and Administration of School Systems, and Foreign School Systems (especially England and Germany).

Under Applied Psychology the more important facts of mental life will be transformed into principles and methods of teaching and suggestions for the construction of sound courses of study.

MR. LEWIS.

2. *Seminar.* Subject for the year: Topics in Secondary Education. One two-hour exercise a week.

This course is designed to furnish men who intend to teach, supervise, or direct educational activities, with an opportunity to become acquainted with methods of research in their chosen field; and to unite their efforts in the investigation of important educational problems. Soon after the Seminary is organized each student will choose some topic or topics, the investigation of which will form the main part of the work in this course. The results of each man's investigation will be presented to the Seminary in at least one extended essay each half year. Current educational literature will be briefly reviewed by members of the Seminary.

MR. LEWIS.

3. The *Seminary in the Philosophy of Education*, described under the Undergraduate Courses, is open also to graduates.

PROFESSOR HORNE.

GREEK

The Greek course in Pedagogy will include a review of all preparatory work, beginning with the Greek Reader. It will involve drill in

pronunciation, the study of method in teaching each subject, the discussion of the more difficult grammatical points, methods of acquiring skill in sight reading, of increasing vocabulary, and securing accuracy in detail.

Students in this course will be required to do a considerable amount of private reading in an author assigned by the instructor.

The undergraduate courses, — Philology 3 and Greek 20, — are essential to the work of this year, and must be elected by graduate students who have not taken them as undergraduates.

The Greek course in Pedagogy is open to students who have taken the undergraduate courses in Greek, amounting to three hours a week, at least to the end of Sophomore year, and who are, in the judgment of the instructor, fitted to begin the work of the course.

PROFESSOR C. D. ADAMS.

LATIN

The work of these courses will be of two kinds. One will be advanced study intended to enlarge the student's knowledge of the Latin language and literature, and requiring some independent research. The other will outline the work of preparation for College, and will follow it through the Latin Reader, Cæsar, and Vergil. Careful attention will be given to pronunciation, including hidden quantity, and its application to metrical reading, to syntax, to the knowledge of forms, to derivation, to reading at sight, to composition, and in general to the method and character of grammatical drill. In some cases undergraduate courses will be allowed or required in addition to the course outlined above.

Students wishing to enter the Latin courses in Pedagogy must have taken the undergraduate courses, amounting to three hours a week, at least to the end of Sophomore year, and must have given satisfactory evidence that they are qualified to enter upon the courses in Pedagogy.

PROFESSOR J. K. LORD.

ENGLISH

The English course in Pedagogy will consist of the detailed study of preparatory English and of advanced work in composition and literature. The review of preparatory work will be made with constant reference to methods of teaching both literature and composition, to the consideration of text-books, and to the correction of students' written work. The advanced course will consist of instruction in composition, with constant practice, and of the careful study of certain masterpieces of English and American literature, particularly of those books which are required for entrance to College. The whole aim of the course will be to fit the students to become teachers of English in secondary schools.

The English course in Pedagogy is open to students who have taken the undergraduate courses in English at least to the end of Junior year, or their equivalent in Senior year; and who, in the opinion of the instructor in charge of the course, are competent to pursue and profit by the course.

PROFESSOR EMERY.

FRENCH

The course offered in French will consist of a study and classification of French sounds, and drill in the pronunciation and reading aloud of French; a careful review of the essentials of French grammar, with exercises in composition to illustrate them; practice in writing French at dictation and in giving paraphrases and brief resumés in French of a given text; discussion of methods of teaching French and of the value and place of various authors and text-books in a graded scheme of elementary instruction in the language.

Although this course is intended primarily as a language drill, a portion of it will be devoted to the special study of an author.

PROFESSOR DOW.

GERMAN

The work will consist of two parts: (a) Direct preparation for the teaching of German in preparatory schools. (b) Course of study of an advanced character.

- (a) Careful study of methods, the difficulties of teaching pronunciation, the subject of composition, paraphrasing, dictation, word-formation, enlarging the vocabulary. Detailed study of courses in elementary German. Discussion of text-books. The geography and leading facts concerning Germany.
- (b) Some particular author — perhaps Lessing or an advanced course in Goethe — or some special period of German Literature will be taken up. A considerable amount of reading will be supplemented by a critical study of particular writings. Study of the life of the author and his position in German Literature. Brief outline of German Literature. Advanced Composition and conversation.

PROFESSOR W. A. ADAMS.

This course will be open only to those who have had three years of German, and who, in the judgment of the instructor, are qualified to pursue this course.

MATHEMATICS

The work in Mathematics will require a three hours' course, both Semesters. Arithmetic, algebra, geometry, and trigonometry will be taken up in order, especial emphasis being laid on the work of the high schools in these subjects. A careful study will be made of at least three standard text-books in each subject; outlines will be formed and text-books compared. Methods of presenting the most important topics will be fully discussed. Each subject will be carried considerably beyond the high school limits. The historical development of each subject will be thoroughly investigated in connection with their natural order of sequence. Actual work accomplished in the classroom will be noted by personal observation throughout the year. The proper foundation for the course requires a fair knowledge of analytic geometry and calculus, and any who do not present these, on admission to the department must take a three hours' course in each for one Semester.

PROFESSORS SHERMAN AND WORTHEN.

PHYSICS

The work offered in the Physical department to fit men taking Physics as a major subject, for teaching in secondary schools, will consist of two advanced three-hour courses in Theoretical Physics,

practice in Physical Manipulation, reading and criticism of elementary texts and popular lectures on physical subjects. The work in total will require an equivalent of at least six hours per week for one year.

The work offered for students who wish to make Physics a minor subject will require at least three hours per week throughout the year, and will include one three-hour course in Theoretical Physics, practice in simpler manipulation, reading and criticism of elementary texts.

In all cases an effort will be made to adapt the instruction to the individual needs of the candidate in view of his previous training. Physics, either as a major or a minor subject, should be chosen only after consultation with the department.

The condition for admission to the course of Pedagogy with Physics as a major subject is that the candidate shall have had in his undergraduate work Courses 1 to 5 inclusive in Physics, or their equivalents. For admission with Physics as a minor subject Courses 1 to 4 inclusive, or their equivalents, are required.

PROFESSOR NICHOLS.

CHEMISTRY

The course includes a careful review of elementary chemistry with discussion of the method of presenting the more difficult subjects, practice in the preparation of reagents and simple apparatus, and the comparison and criticism of various elementary text-books.

Each student will also do advanced laboratory work on special lines assigned by the instructor.

The course is open to students who have completed Courses 2, 3, 4, 5, 7, or equivalents.

PROFESSOR BARTLETT.

BIOLOGY

The nature of the graduate course will vary to meet the requirements of the individual. It will ordinarily consist of training in the collection and preparation of the animals and plants useful for demonstration in secondary schools; the study of their life history as far as practical in the field; the construction of home-made apparatus, and the methods of performing such simple experiments on living organisms as are suitable for the public schools; and criticism of

methods of presentation of special topics in the field, laboratory, and class-room. Opportunity will be given to obtain practical experience in teaching by assisting the regular instructors in the elementary courses.

Candidates for this course must have done creditable work representing the equivalent of six hours a week for two years in Zoölogy and Botany.

The candidate should have taken at least one three-hour Semester course in each of the following subjects: — Elementary Biology, Invertebrate Zoölogy, Comparative Anatomy of Vertebrates, Cryptogamic Botany, and Phanerogamic Botany. The remaining time, of three hours for one year, may have been given to more advanced courses in either Zoölogy or Botany. PROFESSOR PATTEN.

HISTORY

The work will include (1) training in practical methods of teaching in the schools and (2) study adapted to the special needs of the individual.

1. To give clear and practical guidance in the "maze of possibilities" of the modern methods of teaching History, the student will at once be set to reading carefully one or more of the best recent textbooks in the four courses recommended for the secondary schools, and will discuss these with the instructor. He will be asked, in connection with this work, to read the Report of the Committee of Seven to the American Historical Association on "The Study of History in Schools," and to apply its recommendations by making a plan of work for at least two courses, finding a place for such definite use of textbooks, supplementary reading, "sources," written work, map work, and lectures as shall interest and develop the real boy and girl in the secondary school. After studying the programmes of a few of the best schools in Germany and this country, he will be expected to observe and criticise in detail the actual work in one or two, and then attempt to adapt his plan to the actual possibilities of these schools.

2. To round out his own historical knowledge, he may be advised to take courses not already elected in college. For training in power of criticism and insight, he will be asked to read entire some one of the best examples of modern historical writing, and discuss its merits

or limitations ; and to present the results of his own investigation of a topic, limited in scope, based mainly on contemporary sources. This course is open to those who have taken three years of college history, or to teachers whose experience may be considered a fair equivalent for some of such courses.

PROFESSOR FOSTER.

TEACHERS' CONFERENCES

A conference of teachers in secondary schools is held at the College every year. The whole time of each conference is given to the discussion of the work in some one department, or group of closely related departments.

A conference of teachers of Latin and Greek, attended by sixty teachers, was held May 8 to 10, 1902. The following topics were discussed :

The Growth of the Teacher ; his private study ; his library.

How to make the Study of the Ancient Classics interesting.

Roman Taste for Greek Art.

Roman Elements in the Architecture of To-Day.

The First Year in Latin and Greek.

Writing Latin and Greek.

The Study of Greek and Latin Prose Authors.

Latin and Greek Poetry.

Prehistoric Civilization in the Ægean.

College Requirements in Latin and Greek.

The Outlook for Classical Study in America.

Reports of this conference, together with a List of Books recommended for the Library of a Classical Teacher in Secondary Schools, prepared by Mr. R. W. Husband of the Department of Greek, will be mailed free of cost upon application to the Director.

The Spring conference of 1903 will be for teachers of English.

SUMMER SCHOOL

The courses offered in the Summer School are :

- 1 Special courses for teachers in the subjects taught in the Secondary Schools.
- 2 Graduate Courses
- 3 Undergraduate Courses.

For description of courses and further particulars, see pages 279-283.

DEGREES

The degrees of Bachelor of Arts, Bachelor of Letters, and Bachelor of Science are conferred by the Board of Trustees, on the recommendation of the Faculty, upon those who have duly completed the Classical, Latin-Scientific, and Chandler Scientific courses, respectively. For degrees with Honors, see page 178.

The degrees of Master of Arts, Master of Science, and Doctor of Philosophy will be conferred under the following conditions :

(1) The degree of Master of Arts will be conferred upon Bachelors of Arts and Bachelors of Letters of the College of at least one year's standing who shall have pursued in residence at the College, or, provided the approval of the Faculty shall have been first obtained, in the graduate department of any other College or University, for one full year a course of graduate study approved by the Committee on Graduate Instruction as affording suitable preparation for that degree, and shall have completed and passed an examination upon such course of study with high credit and presented a satisfactory thesis.

The study approved by the Committee on Graduate Instruction for the degree of Master of Arts may consist of:

(a) Courses of instruction of advanced grade, four such courses ordinarily being required to constitute a full year's work, or the work may be partly or wholly made up of

(b) Research or special study, either in connection with, or outside the courses of instruction, carried on under the direction, or with the criticism and approval of the head of the appropriate department.

The Master's degree is deemed the appropriate award for graduate students who have shown marked proficiency in liberal studies. In every case the program of work approved for candidates for that

degree must form a consistent plan of study and it ordinarily will be pursued in more than one department. No work which is to be counted for any other degree, except that of Doctor of Philosophy, will be approved as a constituent part of the course of study for the degree of Master of Arts.

(2) The degree of Master of Arts will also be conferred upon Bachelors of Arts and Bachelors of Letters of the College of at least three years' standing who shall have pursued while not in residence at any College or University for one full year, a course of graduate study approved by the Committee on Graduate Instruction, substantially equivalent in kind, grade, and amount to that prescribed for resident candidates for that degree, and shall have completed and passed an examination upon such course of study with high credit and presented a satisfactory thesis.

(3) The degree of Master of Science will be conferred upon Bachelors of Science of the College under the same conditions that are prescribed for the degree of Master of Arts.

The Faculty at its discretion may select one person from the candidates for the Master's degree in any year, to read and to defend his thesis in public at Commencement.

(4) Persons who have received the Bachelor's degree in any other College, whose requirements for that degree are equal to those of this College, may be recommended for the corresponding Master's degree on the same conditions that are prescribed for graduates of this College, except that the specified course of liberal, non-professional study, of not less than one year, must be pursued in residence at this College.

(5) Resident candidates for the degrees of Master of Arts or Master of Science shall be charged the same tuition as undergraduates. They shall be charged also a fee of ten dollars for the degree. Non-resident candidates for the same degree shall be charged a fee of ten dollars for registration and of twenty-five dollars for examination and verification of thesis and for the degree.

(6) The degree of Doctor of Philosophy is at present offered in the departments of Biology, Geology, and Sociology only. Whenever

other departments, singly or in groups, have sufficient teaching force and equipment to offer courses leading to this degree, announcement will be made in the catalogue. Meanwhile, graduates of the College who wish to become candidates in departments not mentioned above, are advised to seek the degree at graduate schools which are prepared to confer it.

(7) A candidate for the degree of Doctor of Philosophy must have received a Bachelor's degree from this College or from a College whose degrees are accepted as equivalent to its own, and he must satisfy the Committee on Graduate Instruction that he is properly prepared for the graduate work in the department in which he is an applicant for a degree. He must pursue graduate studies for at least three years after taking his Bachelor's degree. Two of these years must be in residence at this College. The other year may be spent in graduate study at an approved institution.

(8) Graduates of this College who have received the degree of Master of Arts or Master of Science under the rules in force since 1894, and in courses which form a part of the work announced by the department as leading to the degree of Doctor of Philosophy, may count this work as a year toward the degree.

(9) Candidates for the degree of Doctor of Philosophy are required to present themselves for examination in three related subjects, a major and two minor. The requirements in each minor subject shall not be less than all the required and elective undergraduate courses in that subject, or their equivalent. The graduate work in the major subject will consist largely of original investigation of a definite problem, the results of which are to be embodied in a thesis that shall contain some original contribution to knowledge, together with an historical and critical summary of the pertinent literature.

(10) Candidates for the degree of Doctor of Philosophy are charged the same tuition as undergraduates. They are also charged a fee of twenty-five dollars for the degree.

SPECIAL REGULATIONS

(1) Applicants for an advanced degree, whether resident or non-resident, are required to announce to the President on a blank which will be furnished by the Dean of the Faculty on application, as early as the first of October of each year, the particular branches of study to which they wish to give attention during the year, together with all needed statistics and facts. The supervision of their work will then be entrusted to the Committee on Graduate Instruction.

(2) The subject of the thesis must be announced to the President as early as the first of February of the college year in which the applicant expects to take the degree.

(3) The thesis must be completed and put into the hands of the chairman of the Committee on Graduate Instruction as early as the first of June.

(4) Every non-resident candidate must send a written report of the progress of his work to this committee through the head of the department at least twice a year, in December and in June. Any non-resident candidate who shall fail to make such report for a period of two years shall be deemed thereby to have ceased to be a candidate for the degree for which he was enrolled.

HONORS

COMMENCEMENT APPOINTMENTS

The speakers at Commencement are appointed by the Faculty on the basis of excellence in general scholarship for the entire College course.

RUFUS CHOATE SCHOLARS

Students who attain a rank of 92 are designated "Rufus Choate Scholars." The designation is entirely a term of honor and carries with it no pecuniary allowance. The assignment is made at the close of each year, and the names of such scholars are to be announced by the Dean, and published in the annual catalogue.

HONORS

For excellence in special departments of study, three grades of honors are awarded by the Faculty, — Honorable Mention, Honors, and Special Honors.

HONORABLE MENTION

Honorable Mention is awarded in the following courses of study to students who obtain an average rank of 93 per cent in the courses specified below for each department:

GREEK, for Courses 1a, 2, and any two of the courses in the group 3 to 6.

LATIN, for Courses 1, 2, 3, 4; or for Courses 1, 2, 3 or 4, and 5 or 6.

ENGLISH, for Courses 1, 2, 3, and 4; or for Courses 1, 2, 9, and 10.

FRENCH, for any *four* of the following Courses: 1, 2, 3, 4, 5, 6, 11, 12.

GERMAN, for Courses 1, 2, 3, and 4; or for Courses 5, 6, 7, and 8.

MATHEMATICS, for Courses 1, 2, 4, 4a, 5, 7, 9, 10, and 10a; or for Courses 1a, 3, 6, 8, 11, and 12.

GRAPHICS, for Courses 1, 2, 3, and 4.
 PHYSICS, for Courses 1, 2, and 3 or 5.
 CHEMISTRY, for Courses 2, 3, 4, and 5 or 7.
 ZOÖLOGY, for courses in Biology 1, 1a, 2, 3, and 4.
 BOTANY, for courses in Biology 1, 1a, 2, 5, and 6.
 GEOLOGY, for Courses 2, 3, 5.
 MINERALOGY, for Courses 1, 2, 3, and 4 or 9.
 HISTORY, for Courses 1 and 2, and any two courses in Junior year.
 ECONOMICS, for Courses 1, 2, and any other two courses.
 POLITICAL SCIENCE, for Courses 2, 3, 4, and 5.
 POLITICAL SCIENCE, for Courses 3, 8, and Economics 1 or 2, and History
 4 or 5.
 PHILOSOPHY, for Courses 1, 2, 7, and 8.

The names of students receiving Honorable Mention are printed in the annual catalogue published next after the award.

HONORS

Honors are awarded in the following departments of study to students who maintain an average rank of 93 per cent in the courses specified below for each department, and who in addition pass with credit a special examination at the close of the work :

GREEK, one three-hour course in each Semester of Junior and Senior years.
 LATIN, one three-hour course in each Semester of Junior and Senior years.
 ENGLISH, Courses 1, 2, and 3, 4, or 9, 10, and 5, 6, 15, 16.
 FRENCH, Courses 9, 10, or 11, 12, and any two of the following courses :
 13, 14, 15, 16, 17, 18, 19, 20.
 GERMAN, any three of Courses 7, 8, 13, 14, 17, and Courses 19, 20.
 MATHEMATICS, Courses 9, 10 and 10a, or 11 and 12, and 13, 14, 15, 16,
 18.
 GRAPHICS, all courses in Civil Engineering.
 PHYSICS, Courses 3, 4, 5, and any one of Courses 6, 7, 8, 9, 10.
 CHEMISTRY, Courses 2, 3, 4, 5, 7 or 8b, and either 6 or 8a.
 ZOÖLOGY, courses in Biology, 4, 7, 9, 10.
 BOTANY, courses in Biology, 5, 6, and any two of the following courses : 7,
 11, 12.
 MINERALOGY, Courses 1, 2, 3, 4, 9, and 10.
 HISTORY, four courses, not included in Honorable Mention.
 SOCIOLOGY, all the undergraduate courses.
 PHILOSOPHY, Courses 3, 6, 9, 12.

SPECIAL HONORS

Special Honors are awarded in the departments specified below to those who fulfil the conditions mentioned hereafter.

Any student who attains the average rank of 85 per cent in the studies of Junior year, or who attains 93 per cent in any department, with an average of at least 80 per cent in all departments, in the studies of Sophomore and Junior years, will be allowed to become a candidate for Special Honors in any department in which he has attained a rank of 90 per cent. Students who are thus entitled to become candidates for Special Honors, and who wish to do so, must give written notice to that effect to the Dean of the Faculty and to the officer in charge of the department in which Special Honors are sought, on or before the 15th of October of their Senior year, and must fulfil the following conditions :

(a) They must take the elective courses indicated below in the department in which they seek Special Honors, and must also pursue such additional courses of study and collateral reading or investigation as shall be prescribed. At the close of the year they must pass a special examination covering their work in the department, including the courses of collateral reading or investigation presented for Special Honors, and designed to test the range and accuracy of their work.

(b) They must also, if required, present theses satisfactory to a committee appointed by the Faculty, embodying the result of their special study. The subjects of theses shall be announced not later than March 1, and the theses must be handed to the Dean of the Faculty not later than June 10 of Senior year.

(c) They must maintain their general standard of scholarship, and if their average rank falls below 80, or if it falls below 70 in any one department in any Semester, they will be required to discontinue their work for Special Honors.

(d) No student will be allowed to become a candidate for Special Honors in more than one subject, without a special vote of the Faculty.

Special Honors may be sought in the following departments :

GREEK — Continuous work in Greek throughout the course, covering all Greek courses of Freshman year, two courses in Sophomore year, one of which must be a three-hour course, and an average of four hours a week in

Junior and Senior years. The candidate will do additional work, equivalent to at least one three-hour course for a year, to be assigned at the opening of Senior year; he will be examined on this work and on his general attainments in Greek at the end of Senior year. A thesis is required.

LATIN — Work in the elective courses of Junior and Senior years amounting to four hours a week; an examination on the work of some Latin author not covered in the course, and also a general examination upon Latin Literature, with more special reference to the period to which the particular author studied belonged. A thesis is required.

ANCIENT CLASSICS — Courses in Greek and Latin covering an average in each of three hours a week in Junior and Senior years. Special study in one of the two languages amounting to the work of a three-hour course for Senior year will be required, and the final examination will cover this study, as well as the general work in the two languages. A thesis in connection with the subject of special study may be required.

ENGLISH — Eight courses, with examinations on all courses of Junior and Senior years, and upon two authors outside the course, amounting to three hours for Senior year. A thesis will be required.

FRENCH — Any *six* of the following courses: 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20. A thesis will be required.

GERMAN — Any two of Courses 7, 8, 13, 14, 17, and Courses 15, 16, 20, 21, 22, with collateral reading and study. A thesis will be required.

MATHEMATICS — All courses, and advanced work in Calculus, and its applications. A thesis may be required.

PHYSICS — Courses 1, 2, 3, 4, 5, and any three of Courses 6, 7, 8, 9, 10, with the solution of some simple research problem described in a thesis.

ZOOLOGY — Courses in Biology 1, 1a, 2, 3, 4, 7, 9, 10, 14, and either 5 or 6, with special laboratory work and collateral reading amounting to a minimum of 3 hours per week for Senior year.

BOTANY — Courses in Biology 1, 1a, 2, 5, 6, 7, 11, 12, and either Courses 3 or 4, with collateral reading and such additional work as may be indicated by the instructor, amounting to a minimum of three hours per week for Senior year. A thesis may be required.

MINERALOGY — Courses 1, 2, 3, 4, 9 and 10, together with special investigation of economic collections, the theories of the formation and grouping of complex silicates, and the application of the principles of petrography to material of an assigned area. The whole must amount to a minimum of three hours per week for Senior year. A thesis may be required.

HISTORY—Candidates must take all elective courses offered by the department, together with additional courses of study, collateral reading, and investigation. At the close of the year they must pass a special examination covering the work of the department and the additional work.

ECONOMICS—All courses, with collateral reading and study amounting to three hours a week for Senior year.

POLITICAL SCIENCE—Courses, 3, 4, 5, 6, with collateral reading and study amounting to three hours a week for Senior year.

PHILOSOPHY—Candidates must take at least eight courses, and do original, critical work in Greek philosophy, or in German philosophy. Thesis will be required.

Any student who has an average rank for his entire college course of 90 per cent, or who has received Honorable Mention in two departments and Honors in one department, or who has received Honorable Mention in one department and Special Honors in another, shall receive a degree *cum laude*.

Any student who has received an average rank for his entire college course of 92 per cent, or who has received Honorable Mention and Honors in two departments, or who has received them in one department together with Special Honors in another, shall receive a degree *magna cum laude*.

Any student who has an average rank for his entire college course of 94 per cent, or who has received Honorable Mention and Honors in two departments, together with Special Honors in any department, shall receive a degree *summa cum laude*.

The names of recipients of Honors are printed on the Commencement programme and in the annual catalogue.

SCHOLARSHIPS AND PRIZES

THE HENRY ELIJAH PARKER FELLOWSHIP

This Fellowship is based upon a fund bequeathed to Dartmouth College by Professor Parker who was Professor of the Latin Language and Literature in Dartmouth College from 1866 to 1896, the last four years as Professor Emeritus.

The value of the fellowship is \$500 a year, and may be held for two years. The holder of the fellowship shall be a graduate of not more than one year's standing, recommended by the Faculty. If judged advisable by the Faculty, he may be allowed a year for special preparation before entering upon the duties of his fellowship or receiving the income attached to it. During the time in which he is upon the fellowship he shall pursue advanced studies, not professional, subject to the approval of the Faculty. He shall also regard himself as committed to an engagement as a teacher in the College for the year after his fellowship expires, in case the College requires his services, at the usual compensation for the grade of his appointment.

RESIDENT GRADUATE SCHOLARSHIPS

Six scholarships, yielding three hundred dollars each for one year, have been provided for graduates of the College who wish to continue their studies in residence. These scholarships are designed particularly for those who intend to teach, but are not limited to those who have this end in view.

THE SCHOLARSHIP SYSTEM BASED ON BENEFICIARY AID

For Scholarship honor irrespective of beneficiary aid, see page 174.

Scholarships, in distinction from prizes, are designed to aid those who are chiefly dependent upon their own exertions in securing a College education. It is not expected that those whose ordinary expenses can be met by parents or through other sources will apply for beneficiary aid.

While scholarship aid is based upon pecuniary need, the amount of this aid above fifty dollars is determined by actual proficiency in scholarship, taken in consideration with faithfulness in attendance and study.

The following rules govern the bestowal of beneficiary aid, and apply to all scholarships:—

(1) All applications must be made on blanks furnished by the Dean, which require the signatures of parties concerned and testimonials in respect to character and attainments.

(2) No student who is not in full standing shall receive beneficiary aid or a scholarship.

(3) In addition to the restrictions which may be imposed by the donors of scholarships, the conditions of careful economy in personal expenses and of abstinence from intoxicating liquors are imposed by the College.

(4) Applications for the renewal of beneficiary aid and scholarship from year to year must be made out on blanks furnished at the Dean's office, and must be filed at his office by June 1; each application must contain a complete statement of income and expenditure during the year preceding.

(5) The value of the scholarship in addition to the beneficiary aid will be determined semester by semester according to the rank of the previous semester. In Freshman year the rank of the first semester will determine the amount of scholarship for that year.

(6) Students, whose records are incomplete, must pay their College bills on the basis of beneficiary aid only; when the work of the previous semester is completed, credit will be given according to standing.

GRADATION OF SCHOLARSHIPS

The system of scholarships based upon beneficiary aid will follow the grades which determine the standing of a student in College, see page 161.

Beneficiary aid to the value of \$50 will be given for grade D, but will not be given below that grade except in cases of marked faithfulness in attendance and study.

Scholarship allowance begins with grade C ; grade C entitles the recipient to \$70, grade B to \$80, grade A to \$100.

ENTRANCE SCHOLARSHIPS

(Applicable to those entitled to beneficiary aid.)

Four entrance scholarships of the value of \$100 each will be assigned to those members of each incoming class, who enter by examination with a rank of at least grade B. These scholarships will be assigned in order of rank.

The examination for these scholarships must be taken at the College or at places specified in the catalogue (pp. 82-83) at the June examinations. This examination cannot be divided between preliminaries and finals, nor between the June and September examinations.

COLLEGE SCHOLARSHIPS

(Applicable to those entitled to beneficiary aid.)

Four scholarships of the value of \$200 each will be given in the order of rank irrespective of class to those students who attain the highest standing for the year, provided that standing is above 93.

These scholarships will be announced on July 15 of each year, and the amount of such scholarship in excess of credit allowed during the year on any other scholarship will be paid at that time.

SOURCES OF INCOME FOR BENEFICIARY AID AND SCHOLARSHIPS

I — From lands and funds given by the State of New Hampshire, with an annual income equivalent to sixty scholarships of \$1,000 each. These scholarships are limited to residents of the State.

II — From funds amounting to \$11,000 given by Jeremiah Kingman, of Barrington, New Hampshire, to found the "Kingman Scholarships," eleven in number. "In applying the income annually of one thousand dollars, the preference shall be given to some student from the town of Strafford; and in applying the income of the other ten thousand dollars, preference shall be given to one student from each of the ten counties in the State of New Hampshire."

III — From funds amounting to \$10,000 given by Mrs. Betsey Whitehouse, of Pembroke, New Hampshire, to establish the "John S. Jenness Foundation." By the provisions of the donor, "A worthy and needy applicant from each of the ten counties of the State of New Hampshire shall receive, by preference, the income of one of these scholarships." Another gift by Mrs. Whitehouse is included in the general list of \$1,000 scholarships.

IV — From funds amounting to \$27,000 given chiefly by churches in the state and intended in the first instance for students studying for the ministry.

V — From funds given to found separate scholarships of the value of \$1,000 each. The list is as follows: —

The Aiken Scholarship given by Jonas B. Aiken of Franklin, N. H.

The William Lawrence Baker Scholarship given by Mrs. Caroline A. Lawrence of Winsted, Conn.

The George W. Benson Scholarship given by Mrs. Maria T. Benson of Lawrence, Mass.

The Richard Boylston Scholarship given by the family of Richard Boylston of Amherst, N. H.

The Joseph P. Brooks Scholarship given by Joseph P. Brooks of Chicago.

The Emily Clark Brown Scholarship given by Edward J. Brown, M.D., of Minneapolis, Minn.

The Burleigh Scholarship given by George W. Burleigh of Great Falls, N. H.

The Carr Scholarship given by William Carr of Newport, N. H.

- The Cilley Scholarship given by Jacob G. Cilley of Manchester, N. H.
 The Lizzie C. Converse Scholarship given by Miss Sarah E. Converse of Burlington, Vt.
 The Cushing Scholarship given by G. W. B. Cushing of New York City.
 The Dodge Scholarship given by William E. Dodge of New York City.
 The Edgell Scholarship given by George S. Edgell of New York City.
 The John M. Ellis Scholarship given by Mrs. Josephine M. Ellis of Milford, N. H.
 The Horace Fairbanks Scholarship given by Horace Fairbanks of St. Johnsbury, Vt.
 The Thaddeus Fairbanks Scholarship given by Thaddeus Fairbanks of St. Johnsbury, Vt.
 The Fairfield Scholarship given by Josiah H. Fairfield of Hudson, N. Y.
 The Fogg Scholarship given by William H. Fogg of New York City.
 The Gookin Scholarship given by Warren D. Gookin of New York City.
 The Greene Scholarship given by William H. Greene of Buffalo, N. Y.
 The Mary Harris Scholarship given by Mrs. Mary Harris of Manchester, N. H.
 The Tracy H. Harris Scholarship given by Tracy H. Harris of New York City.
 The Mrs. Adaline Hartshorn Scholarship given by Mrs. Adaline Hartshorn of Manchester, N. H. (awarded preferably to sons of missionaries).
 The Hitchcock Scholarship given by Hiram Hitchcock of Hanover, N. H.
 The Hunt Scholarship given by Seth B. Hunt of New York City.
 The Hutchinson Scholarship given by John B. Hutchinson of New York City.
 The Leonard Jewett Scholarship given by Rev. Leonard Jewett of Hollis, N. H.
 The Kendrick Scholarship given by Professor Henry I. Kendrick of West Point, N. Y.
 The Kimball Scholarship given by Benjamin A. Kimball of Concord, N. H., annually, \$60.
 The Kittredge Scholarship given by Moses Kittredge of St. Johnsbury, Vt.
 The Knight Scholarship given by Miss C. Knight.
 The Mary Langdon Scholarship given by William T. Savage, D.D., of Godfrey, Ill.
 The Lawrence Scholarship given by Aaron Lawrence of Amherst, N. H.
 The Lue Lawrence Scholarship given by Miss Sarah Lucretia Lawrence of Amherst, N. H.
 The Mary H. Lord Scholarship given by Mrs. Mary H. Lord of Andover, Mass.
 The Nesmith Scholarship given by George W. Nesmith of Franklin, N. H.
 The Daniel Nettleton Scholarship given by Fred H. Nettleton of St. Paul, Minn.

- The William W. Niles Scholarship given by William W. Niles of New York City.
- The Parker Scholarship, Memorial of Edith Florence Parker, given by Joel Parker, LL.D., of Cambridge, Mass.
- The Peaslee Scholarship given by Professor Edmund R. Peaslee, M.D., LL.D., of New York City.
- The William Rand Scholarship, from Estate of William Rand, of Rochester, N. H.
- The Richards Scholarship given by Dexter Richards of Newport, N. H.
- The Joel Richardson Scholarship given by James B. Richardson, LL.D., of Boston, Mass.
- The John Jones Sargent Scholarship given by Jonathan E. Sargent, LL.D., of Concord, N. H.
- The David A. Simmons Scholarship given by David A. Simmons of Roxbury, Mass.
- The Stanton Scholarship given by Samuel Stanton of London, Eng.
- The Stephen N. Stockwell Scholarship given by Stephen N. Stockwell of Boston, Mass.
- The Stone Scholarship given by Mrs. Benjamin P. Stone of Concord, N. H.
- The Tenney Scholarship given by William Tenney of Hanover, N. H.
- The William C. Todd Scholarship given by William C. Todd of Atkinson, N. H.
- The Trussell Scholarship given by J. Trussell of Canaan, N. H.
- The Twombly Scholarship given by Horatio N. Twombly of New York City.
- The John S. Wallace Scholarship given by Mrs. Celia Whipple Wallace of Chicago.
- The Thomas Whipple Scholarship given by Mrs. Celia Whipple Wallace of Chicago.
- The Mrs. Betsey Whitehouse Scholarship given by Mrs. Betsey Whitehouse of Pembroke, N. H.
- The George F. Wingate Scholarship given by Isabel C. Wingate of Exeter, N. H.
- The Dutton Woods Scholarship given by Miss Maria Woods of Concord, N. H.
- The Woodward Scholarship given by Dr. Ebenezer Woodward of Quincy, Mass.

VI. From funds given to found separate scholarships as follows :

- The Bouton Scholarship
given by the family of Nathaniel Bouton, D.D., of Concord, N. H. \$1500
- The George E. Chamberlain Scholarships
given by Mrs. Addie D. McAlpine of New York City . . . 5000

The Richard Foster Scholarship	
given by Sarah B. Foster of Washington, D. C. . . .	\$2500
The Gordon Scholarships	
given by Nathaniel Gordon of Exeter, N. H. . . .	2000
The Grimes Scholarship and	
The Mrs. James W. Grimes Scholarship	
given by James W. Grimes, LL.D., of Burlington, Ia. . . .	2000
The Haven Scholarships	
given by bequest of Eliza A. Haven to establish six scholarships	9000
The Emily Wheelock Hill Scholarship	
given by Caroline Wheelock Hill of Wilkinsonville, Mass. . .	2500
The Ephraim E. Howard Scholarships	
given by James T. Howard of St. Johnsbury, Vt. . . .	5700
By the provisions of the donor not available at present.	
The Henry G. Jesup Scholarship	
given by Professor Henry G. Jesup, Hanover, N. H. . . .	1200
The Henry H. Ladd Scholarships	
given by Henry H. Ladd of Portsmouth, N. H. . . .	5000
The Betsey R. Lang Scholarships	
given by Mrs. Betsey R. Lang of South Boston, Mass. . . .	5000
The Sarah Reid McMurphy	
The Henry James McMurphy	
The Abby Frances McMurphy Scholarships	
given by bequest of Mrs. Sarah R. McMurphy of Derry, N. H. . .	5000
The William G. Means Scholarships	
given by William G. Means of Boston, Mass. . . .	2000
The Morton Scholarship and	
The Daniel O. Morton Scholarship	
given by Levi P. Morton of New York City	2000
The Albert Onion and	
The John P. Williams Scholarships	
given by Mrs. Abigail W. Onion of Chester, Vt. . . .	2000
The Smyth Scholarship Fund	
from Estate of Frederick Smyth of Manchester, N. H. . . .	5000
The Samuel Swan Scholarship and	
The Janet Swan Scholarship	
given by Miss Elizabeth S. Swan of Peterborough, N. H. . . .	2000
The Wheeler Scholarships	
given by David E. Wheeler of New York City	2000
The Dr. Chase Wiggin Scholarship	
given by Dr. Chase Wiggin of Providence, R. I. . . .	2250
By the provisions of the donor two-thirds of the income is awarded.	
Luke Wood Fund for Scholarships	
Bequest of Martha W. Brown of Hartford, Conn. . . .	\$4850

The "Class of 1876" Scholarship	
given at their 25th reunion.	\$2500
The "Class of 1877" Scholarship	
given at their 25th reunion (incomplete)	2505

When the funds above referred to are insufficient to meet the demands of the Scholarship System based upon beneficiary aid, the scholarship fund is supplemented by an appropriation of the requisite amount from the general fund.

Some additional aid is furnished in the way of compensation to those students who are appointed by the Dean as monitors and by the Librarian as assistant librarians.

PRIZES

I. ORATORICAL PRIZES.

1. *The Benjamin F. Barge Prize.* Through the recent gift of \$2,500 by Mr. Benjamin F. Barge of Mauch Chunk, Pennsylvania, a graduate of Yale, but a member for one year of the Class of '57, Dartmouth, a *gold medal* of the value of \$100, is to be awarded annually "to that member of the Senior Class in any collegiate department or course, who, in competition therefor, shall write and pronounce in public an English oration in the best manner."

2. *Class of 1866 Prizes.* Two prizes, of *thirty* and *twenty* dollars respectively, annually contributed by WALDEMER OTIS, of New York City, in the name of the CLASS of 1866, are offered to the Junior and Sophomore Classes for excellence in Original Orations, to be contested for by two students from each of these classes.

3. *The Rollins Prizes.* The sum of *one hundred* dollars, annually contributed by E. W. and F. W. ROLLINS, is awarded in three prizes of *forty*, *thirty-five*, and *twenty-five* dollars respectively, for excellence in Declamation, to be contested for by two students from each of the three lower classes in the College.

4. *The Smith Prizes.* Two prizes, of *thirty* and *twenty* dollars respectively, given by PROFESSOR JUSTIN H. SMITH, are offered to the Senior Class for excellence in Extemporaneous Oratory, to be contested for by four students.

II. RHETORICAL PRIZES.

1. *The Grimes Prizes.* Two prizes, of *twenty-five* and *fifteen* dollars respectively, given by JAMES W. GRIMES, LL.D., of Iowa, are offered to the Senior Class for excellence in English Composition.

2. *The Lockwood Prizes.* Two prizes, of *twelve* and *eight* dollars respectively, given by LEGRAND LOCKWOOD, of New York, are offered to the Junior Class for excellence in English Composition.

3. *Pacific Coast Alumni Association Prize.* A prize of *fifteen* dollars, given by the Dartmouth Alumni Association of the Pacific Coast, is offered to the Sophomore Class for the best essay on a subject in American Literature.

III. LATIN PRIZES. Two prizes, of *twelve* and *eight* dollars respectively, established by the CLASS of 1846, are offered to the members of the Junior Class who shall maintain the best positions, and pass the best examinations in the studies of the Latin Department, including Latin Composition.

IV. GREEK PRIZES. Two prizes, of *twenty-five* and *fifteen* dollars respectively, established by the joint gift of EDWARD SPALDING, LL.D., and JOSIAH G. DAVIS, D.D., and named the ATHERTON PRIZES, are offered to the members of the Junior Class who shall maintain the best positions and pass the best examinations in the prescribed and elective studies of the Greek Department.

V. MATHEMATICAL PRIZES. Two prizes, of *twenty-five* and *fifteen* dollars respectively, given by GENERAL SYLVANUS THAYER, LL.D., of Braintree, Massachusetts, are offered to the members of the Sophomore Class for excellence in Analytic Geometry and the Differential and Integral Calculus.

VI. MODERN LANGUAGE PRIZE. By the will of THOMAS J. W. PRAY, M.D., of Dover, New Hampshire, the sum of *one thousand* dollars has been bequeathed to the College, "the income of which shall be given to the best scholar, throughout the entire collegiate course, in Modern Languages."

VII. PRIZE FOR GENERAL IMPROVEMENT. A prize of *forty* dollars, given by JAMES W. GRIMES, LL.D., is annually awarded to "that member of the Senior or Graduating Class, who, in the judgment of the College Faculty, has made the most satisfactory progress during his College course, taking into consideration his preparation for the course when he entered."

VIII. MECHANICAL DRAWING. Two prizes, of *fifteen* and *ten* dollars respectively, are offered by CHARLES R. SPALDING, B.S., of Chicago, to the members of the Junior Class (Chandler Scientific Course), for the best sets of Mechanical Drawings, comprising Iso-metrical, Tinted, and Descriptive Geometry Drawings, and Surveying Plots.

IX. GEOLOGICAL PRIZE. CLINTON H. MOORE, Class of 1874, of Butte, Montana, offers to the undergraduate students in Geology and Mineralogy for the present year a prize of *twenty* dollars, for the best essay upon a topic assigned by himself.

COLLEGE BILLS

Each student is charged one hundred dollars for tuition. A further charge of twenty-five dollars is made for certain general privileges, including the use of Library, membership in College Hall, and the various advantages growing out of the increase of the College plant.

Room-rent in the College dormitories is determined by the choice of rooms, heat, care, etc.

The College bills of each year are to be paid in two equal instalments. The first payment is due at the beginning of the first semester (students entering College pay first charge for tuition before matriculation) ; the second on March 10 succeeding. Any delay in payment beyond seven days from these dates, without excuse from the Dean, shall subject the student to loss of standing. Any students failing to make payment within this time shall be entered upon the books of the Treasurer as delinquents, and shall be so reported to the Dean, and notification of the delinquency shall be given to parents or guardians.

No student will be dismissed from College on request unless he shall have paid all his College bills, including the current semester ; nor shall any student be entitled to a degree until all his College bills are discharged.

Entering students who have been granted scholarship aid will be credited with \$25 on their College bill of the first semester, leaving

\$37.50 balance to be paid before matriculation ; if the scholarship of such student, to be determined at the end of the first semester, entitles him to a larger credit, allowance will be made upon the College bill of the second semester.

Students receiving beneficiary aid only to the amount of \$50 will pay \$37.50 each semester.

Students receiving scholarship aid to the amount of \$70 will pay \$27.50 each semester.

Students receiving scholarship aid to the amount of \$80 will pay \$22.50 each semester.

Students receiving scholarship aid to the amount of \$100 will pay \$12.50 each semester.

All students not receiving scholarship aid will pay \$62.50 each semester.

Room-rent is payable in two installments, one half at the beginning of the first semester and one half on March 10 succeeding.

Electric lights, 16 candle-power, including lamps, are furnished at \$7 a year per lamp.

EXPENSES

Expenses may be estimated as follows :

Tuition	\$100.00	to	\$100.00
College Expenses	25.00	to	25.00
Text-books	10.00	to	20.00
Laboratory Fees (if courses elected)	6.00	to	15.00
Room-Rent	10.00	to	150.00
Fuel and lights	16.00	to	45.00
Board from \$3.00 to \$5.00 a week	108.00	to	180.00
Washing	15.00	to	30.00
	\$290.00	to	\$565.00

Room-rent, fuel, and lights are estimated on the supposition that two students occupy the same room.

Expenses, such as furniture, fraternity fees, class-taxes, travelling expenses, etc., vary according to circumstances, and with the character and habits of the individual, and are not included in the above estimate.

No one is advised to attempt a college education until he can assure himself, through the aid of friends, or through his own previous earnings, of a sufficient amount to meet the expenses of the first year. The opportunities for self-help increase during one's college course; it is very rarely the case that one may expect to secure such employment at the beginning as will enable him to meet his expenses.

DORMITORIES

The dormitories of the College accommodate about five hundred students. There are seventy-nine single rooms, two hundred and ten suites for two, and eleven suites for three.

The dormitories are of two kinds, — those heated by steam, with janitor service; and those heated by steam, without janitor service.

In the first class are: Reed Hall, with nineteen rooms in suites for two or three, accommodating forty-four students; the Sanborn House, erected in 1894, with single rooms and with suites for two, accommodating fifty students; the Crosby House, erected in 1896, with single rooms and suites for two or three, with separate bedrooms, accommodating forty students; Richardson Hall, erected in 1897, with single rooms, and suites for one or two, accommodating fifty-six students; Hubbard House, first occupied in 1899, and accommodating thirteen students; Fayerweather Hall, erected in 1900, with single rooms, and suites for one, two, or three, accommodating eighty students; and College Hall, erected in 1901, with single and double rooms accommodating about fifty students.

In the second class are: Hallgarten Hall with an annex, arranged in single rooms, and in suites for two, three, or four, accommodating forty students; Thornton Hall, with single and double rooms, accommodating forty-five students; Wentworth Hall, with double rooms accommodating forty-five students; Dartmouth Hall accommodating twenty-five students; and Elm House with accommodations for twenty-two students.

The first floor of College Hall is devoted to club rooms, making it the social headquarters of the College; an extension furnishes ample accommodation for the "Commons." The second and third floors are devoted to dormitory purposes. Rooms are reserved on the second

floor at moderate prices for visiting Alumni. The Hall is provided with set bowls and water-closets in the basement, and with bath-rooms and water-closets on the second and third floors.

Richardson Hall is provided with fireplaces in most of the suites, and in a few suites with bath-rooms; there are bath-rooms and water-closets on each floor; Crosby House is provided in nearly all its suites with fireplaces, and is furnished with bath-rooms and water-closets on each floor; Fayerweather Hall is furnished with bath-rooms and water-closets on each floor, in each of the three sections, and with shower-baths in the basement of each section. Sanborn House is furnished with bath-rooms and water-closets on each floor; Hallgarten Hall with bath-rooms and water-closets on the second floor; Reed Hall with bath-rooms and water-closets on the second floor; Thornton and Wentworth Halls with bath-rooms and water-closets on first floor; Dartmouth Hall is furnished with bath-rooms and water-closets on the third floor, and Elm House with bath and water-closets in basement.

All rooms in the College buildings, except College Hall, are unfurnished.

ASSIGNMENT OF ROOMS IN DORMITORIES

Students rooming in the College buildings may retain their rooms from year to year by giving written notice to the Registrar before March 20. The rooms not thus re-engaged are offered to the classes in order of seniority. Applications for rooms must be made to the Registrar in writing; these applications are put on file and will be considered in the order received.

Students about to enter College, who wish rooms in the College buildings, should make early application in writing to the Registrar. Rooms reserved on such applications will not be held after July 20, when the results of the June examinations will be known and certificates of admission should be on file.

One student may hold or engage one-half of a double room, but if by June 1 he has failed to secure a room-mate, he will be obliged to relinquish his claim to the room or become responsible for the full rental for the year.

Rooms in the College buildings are rented for the entire College year, and no student will be released from the rental of his room except by special permission of the Dean. The right to occupy a College room is given only to the student to whom the room is assigned and to his room-mate. Neither transfers nor exchanges are allowed.

The time for which the rooms are rented begins on the Thursday before the opening of the College year and ends on the Monday after Commencement. For exception see page 195 concerning College Hall.

Students leaving College at the end of the year, as well as those who are to change from one room to another, or from a College room to a private house or to a fraternity house, must remove all furniture and other property from their rooms on or before the Monday after Commencement. Furniture not thus removed will be removed by the College authorities and stored at the owner's expense and risk.

PRICES OF COLLEGE ROOMS FOR 1903-1904

In each case the price is for the whole room for the year. For a description of the dormitories see pages 190-191.

A diagram giving the location of each room or suite of rooms, with dimensions, number of occupants allowed, and price, will be sent upon application to the Registrar.

FOR ONE OCCUPANT

- \$20. Hubbard House, No. 10.
- \$30. Elm House, No. 11; Hallgarten, No. 16; Hallgarten Annex, Nos. 27, 28, 29, 30; Hubbard House, Nos. 8½, 9, 11.
- \$35. Hubbard House, No. 6.
- \$40. Dartmouth, No. 4; Elm House, Nos. 3, 12; Fayerweather, No. 36; Hallgarten, No. 9; Hallgarten Annex, No. 26.
- \$45. College, Nos. 15, 29; Elm House, Nos. 8, 13; Thornton, No. 3.
- \$50. College, Nos. 12, 26; Crosby, No. 23; Fayerweather, Nos. 24, 29; Hubbard House, No. 5; Richardson, No. 22; Sanborn, Nos. 24, 27; Thornton, Nos. 4, 7a.
- \$55. College, Nos. 1, 9; Hallgarten Annex, Nos. 21, 23.
- \$56. Reed, No. 12; Thornton, No. 5.
- \$60. College, Nos. 13, 27; Richardson, No. 13; Sanborn, Nos. A, 26, 28.

- \$65. College, No. 23.
- \$70. Fayerweather, Nos. 39, 40; Sanborn, No. 29.
- \$75. Fayerweather, Nos. 45, 46, 51, 52.
- \$80. Fayerweather, Nos. 3, 4, 9, 10, 15, 16.
- \$85. College, Nos. 10, 24; Fayerweather, Nos. 2, 38.
- \$90. College, Nos. 11, 14, 25, 28; Fayerweather, No. 41.
- \$95. Fayerweather, Nos. 47, 53.
- \$100. Fayerweather, Nos. 5, 11, 17; Richardson, No. 28.
- \$110. Richardson, Nos. 10, 27.
- \$120. Richardson, No. 18.
- \$130. Richardson, Nos. 9, 19.

FOR TWO OCCUPANTS

- \$70. Bartlett, No. 4; Dartmouth, Nos. 2, 6, 8, 10; Thornton, Nos. 12, 14, 20, 22; Wentworth, No. 22.
- \$72. Wentworth, Nos. 4, 12, 14, 20.
- \$74. Dartmouth, Nos. 3, 5, 9.
- \$76. Dartmouth, No. 12; Thornton, No. 24; Wentworth, Nos. 16, 24.
- \$80. Bartlett, No. 1; Dartmouth, Nos. 1, 11; Fayerweather, Nos. 33, 34; Hallgarten, Nos. 15, 17, 18, 20; Hubbard House, No. 7; Thornton, Nos. 7b, 11, 16; Wentworth, No. 2.
- \$82. Thornton, No. 18; Wentworth, Nos. 1, 3, 5, 7, 18.
- \$84. Dartmouth, No. 7; Thornton, No. 10; Wentworth, Nos. 10, 19, 21, 23.
- \$86. Thornton, Nos. 13, 15, 17, 19, 21, 23; Wentworth, Nos. 9, 11, 13, 15, 17.
- \$90. Bartlett, No. 3; Elm House, Nos. 4, 5, 9; Thornton, No. 8; Wentworth, No. 8.
- \$92. Thornton, No. 2.
- \$96. Hallgarten, Nos. 5, 7, 11, 13; Thornton, Nos. 1, 9.
- \$100. Bartlett, No. 2; College, No. 8; Elm House, Nos. 1, 10; Fayerweather, No. 35; Hallgarten, Nos. 8, 10, 12, 14; Reed, No. 4.
- \$102. Reed, No. 3.
- \$106. Reed, Nos. 5, 6.
- \$110. College, No. 22; Elm House, Nos. 2, 7; Hallgarten Annex, No. 24; Reed, Nos. 1, 2, 7, 8, 9, 10; Sanborn, Nos. 10, 18.
- \$114. Reed, No. 16.

- \$116. Reed, No. 11.
- \$120. Crosby, No. 17; Elm House, No. 6; Fayerweather, Nos. 1, 19, 37; Hubbard, No. 8; Reed, No. 14; Sanborn, Nos. 17, 19, 21, 23.
- \$122. Reed, Nos. 18, 19.
- \$124. Reed, No. 15.
- \$130. Fayerweather, Nos. 6, 7, 13, 20, 21, 23, 28, 42, 43, 49; Reed, No. 17; Richardson, Nos. 1, 2, 23, 24; Sanborn, Nos. 2, 9, 20, 22, 24.
- \$132. Reed, No. 13.
- \$140. Crosby, Nos. 16, 22; Fayerweather, Nos. 12, 18, 25, 26, 30, 31, 48, 54; Sanborn, Nos. 3, 5, 7, 11, 13, 15.
- \$150. Crosby, No. 7; Fayerweather, No. 22; Richardson, Nos. 5, 6, 14, 15; Sanborn, Nos. 1, 4, 6, 8, 12, 14, 16.
- \$160. College, No. 7; Crosby, Nos. 1, 14, 19; Fayerweather, Nos. 8, 14, 27, 32, 44, 50.
- \$170. College, No. 21; Crosby, Nos. 3, 9.
- \$180. College, Nos. 2, 4, 5, 16; Crosby, Nos. 2, 11, 15, 18; Richardson, No. 4.
- \$190. College, Nos. 18, 19; Crosby, No. 4.
- \$200. College, Nos. 6, 20; Crosby, Nos. 5, 10, 21; Richardson, No. 3.
- \$210. Richardson, No. 30.
- \$220. College, No. 3; Crosby, Nos. 6, 8, 13, 20; Richardson, Nos. 25, 26, 29.
- \$240. Crosby, No. 12.
- \$250. College, No. 17; Richardson, Nos. 7, 8, 12, 16, 17.
- \$260. Richardson, Nos. 11, 20.
- \$280. Richardson, No. 21.

FOR THREE OCCUPANTS

- \$102. Dartmouth, No. 7.
- \$162. Reed, No. 15.
- \$165. Reed, No. 17.
- \$220. Fayerweather, Nos. 41-42.
- \$230. Fayerweather, Nos. 5-6.
- \$235. Fayerweather, Nos. 47-48, 53-54.
- \$240. Fayerweather, Nos. 11-12, 17-18.
- \$270. Crosby, No. 8.
- \$330. College, No. 17.

COLLEGE HALL

The Trustees have recently erected a building for the social uses of the College. It is situated at the corner of Main and Wheelock Streets, with a frontage of eighty feet on the Campus and one hundred and twenty feet on Wheelock Street. The building carries an extension for a dining hall fifty feet by eighty-five, finished into the roof, capable of providing for three hundred students. College Hall is designed to be the social headquarters of the College. It is open to all students, to members of the Faculty, and to the Alumni. Through the provision made for Commons, it complements the dormitory system. The lower floor is conveniently divided into club rooms, accommodating the various College organizations. These rooms are also accessible to the general dining hall, and may be used by the alumni at Commencement, or at other times for class suppers. The second and third floors are arranged in suites of rooms for the ordinary use of students during term time and for the use of the alumni at Commencement. On account of this latter use, they are supplied with the necessary articles of furniture. A few rooms on the second floor are reserved for the Alumni who may wish to visit the College during the year. The building is heated by steam from the central heating station, and is properly supplied with bath-rooms.

THE LIBRARY

In its several collections, the College Library represents the accumulations of a century and a quarter. It originated in valuable gifts of books to the first President from English and Scotch societies for promoting religious knowledge; also, from the Rev. John Erskine, Mr. William Dickinson, and others. Similar benefactions have followed, among the more important of which are the Johnson, Phillips, Shattuck, Shurtleff, Parker, Smith, Appleton, Bond, Grimes, and Chamberlain donations.

For many years separate libraries were sustained and managed by the public literary societies of the students, known as the Social Friends and the United Fraternity. The Philotechnic Society, or,

ganized at a later date among the students of the Chandler School, also made important additions to these collections.

In 1874 the different libraries were consolidated, and put under the control of the College, but the principle of voluntary contribution, by which the collections were so largely gathered, is still maintained, and the annual sum of six dollars is collected from each student, for convenience, with the tuition. According to the agreement through which this annual assessment is made, the selection of books to the value of several hundred dollars yearly is entrusted to a committee of the Seniors.

The main collection, numbering about 100,000 volumes and 20,000 pamphlets, with a large accumulation of newspapers and manuscripts, is in Wilson Hall, a commodious and convenient fire-proof building, constructed after approved plans of library architecture. The building is heated by steam, elaborately ventilated, and, including the stack-room, lighted by electricity. The books are arranged according to the "expansive system," so modified as to correspond as nearly as possible to the departments of instruction in the College. There is a card catalogue of authors, and also a classed catalogue of subjects arranged by titles.

The departmental reference library, which consists of books reserved for collateral readings in the various courses, occupies two rooms adjacent to the stack, and is open afternoon and evening. Books from this department are loaned for the night and ensuing forenoon.

Wilson Hall also contains a large and attractive reading room, well stocked with general reference books. The art gallery, which contains over one hundred portraits in oil, has recently been fitted with shelving of the latest pattern, supplied with convenient tables, and made available as a periodical reading room. Here are also kept the bound files of popular magazines. The library possesses a good collection of photographs for the illustration of art and archæology, coins, curios, etc.

There are department libraries at the Medical School, the Tuck School, the Observatory, the Thayer School building, the Y. M. C. A. Rooms, as well as in the Physical, Chemical, Geological, Botanical, and Zoölogical Laboratories, and in the rooms occupied by the departments of Greek, Latin, and Social Science.

The rooms in Wilson Hall formerly used for offices of college administration are now used for collections on the subject of education, for the special benefit of the Faculty.

Books may be drawn for two weeks, excepting certain volumes so indicated, which have been added during the college year, and may be retained but one week. Undergraduates may have four books at a time; resident graduate students, ten; Alumni, four. Persons not connected with the College may use the Library upon the payment of four dollars yearly.

The reading and reference rooms are open on week days from 8 A.M. to 10 P.M.; on Sunday the reading room is open from 1.30 to 5.30 P.M.

The Library is open for drawing books from 9 A.M. to 12 M., and from 1 to 5 P.M.

Special attention is given to bibliology by courses of instruction, supervision of courses of reading, and personal assistance.

SCIENTIFIC EQUIPMENT

BUTTERFIELD MUSEUM

By the will of the late Ralph Butterfield, M.D., of Kansas City, of the Class of 1839, the College was made the residuary legatee of his estate, in a sum estimated at one hundred and sixty thousand dollars, "for the purpose of founding and forever maintaining a chair and professorship for the purpose of lectures, recitations, and general instruction in paleontology, archæology, ethnology, and other kindred subjects; and for the erection of a building to cost not less than thirty thousand dollars, for the purpose of keeping, preserving, and exhibiting specimens illustrating the aforesaid branches. It is to be optional with the Trustees either to establish a professorship or a series of lectures at stated periods, on the subjects mentioned."

In accordance with the expressed wish of the donor, the Butterfield Museum, a granite and Roman brick structure, one hundred and forty-five by fifty-five feet in dimension, of three stories and a basement, has been erected, and is now occupied by the various departments indicated in the above bequest. Special facilities are offered for instruction in Geology and Mineralogy, in Zoölogy and Botany, and in Archæology and Sociology.

The collections in Geology and Biology are arranged in the Butter-

field Museum. They consist of the Frederick Hall collection of minerals and rocks, the Henry Fairbanks collection of birds and insects, restorations of large extinct animals, an extensive herbarium, collections illustrative of archæology, conchology, economic geology, and numerous other specimens, besides topographical models, and a special collection of the rocks of New Hampshire and Vermont, gathered under the auspices of the Geological Survey of New Hampshire. During the year a collection of great value, comprising fifteen hundred specimens of gold, silver, copper, lead, and zinc ores from a section of Montana, forming a complete history of the mineral development of the region, has been presented to the Museum by Clinton H. Moore, Class of 1874, of Butte, Montana.

The working collection of casts and photographs for Greek and Roman Archæology are in Room S on the third floor; this large and well lighted room is also used for recitations and Seminary work in this department.

A valuable Ethnological collection occupies a room at the east end on the second floor and the unsurpassed specimens of Assyrian Sculpture are arranged along the walls of the adjoining hall.

The main Biological Laboratory is a large room eighty-four by thirty feet, on the north side of the first floor. It is used for the elementary biology courses. A similar room in the basement is used for the work in mammalian anatomy and in the comparative anatomy of vertebrates. Adjoining this laboratory is a thoroughly equipped macerating-room. At the west end of the first floor is the laboratory for the embryology course and for the advanced workers. At the east end is a library, and also a Botanical Laboratory.

In addition to the above named rooms are five private rooms for instructors, a chemical room, two storerooms, and in the basement a room for live animals and the herbarium. All the laboratories are well equipped with the apparatus necessary for practical biological work.

PHYSICAL LABORATORY

The Wilder Laboratory, the gift of the late Mr. Charles T. Wilder of Wellesley, Mass., has been occupied since its completion in the summer of 1899 by the department of Physics. The building has a frontage of one hundred and seven feet, and a depth of fifty-six feet, and a rear projection of fifty-five by thirty-five feet.

The laboratories, lecture and recitation rooms occupy three stories and a basement. The basement contains a well equipped workshop and a dynamo room, magnetic and electrical laboratories, a storage battery room, and a laboratory for constant temperature experiments. A large lecture room (seating 200 persons), arranged for lantern projection, and equipped with many conveniences for the purpose of general lectures in physics, is on the first floor. The floor is further divided into offices for the members of the department, two recitation rooms, an electrical laboratory, and an apparatus room. The general laboratory provided for students in the first course in practical physics occupies a section of the second and third floors. The remainder of these floors is given up to the departmental libraries in physics and astronomy, two apparatus rooms, a chemical kitchen, two suites of rooms for assistants in the department, an unpacking room, and eleven laboratories planned with reference to special work in optics, spectrometry, photometry, photography, acoustics, electric waves, and the heat spectrum.

The building is heated by steam (both direct and indirect radiation) and lighted by electricity. It is supplied, throughout, with water, illuminating gas, and air under pressure; and a part of the building is provided with connections for oxygen and hydrogen gases. The laboratories and lecture rooms are connected by separate circuits with a large switchboard in the basement so that the electrical power of the generators and storage battery is accessible to all parts of the building. Each room is further provided with a separate signal circuit connecting it with a telephone switchboard on the second floor so that time signals may be sent, and other electric communication is easily possible between different parts of the building.

The equipment of the department with instruments and apparatus is being carried forward by the income from funds left the department by Mr. Wilder. The present equipment is adequate for the needs of the lectures in general physics, the junior course in practical physics, and for the advanced courses which are offered.

The nearness of the physical laboratory to the astronomical observatory affords to either department the resources of the other.

OBSERVATORY

The Shattuck Astronomical and Meteorological Observatory is used for the purposes of instruction. It is provided with the instruments necessary to a complete observatory, including a telescope by Clark, having an aperture of 9.4 inches, and a focal length of 12 feet, with a spectroscope of the highest power and best construction, a four-inch meridian circle, etc.

CHEMICAL LABORATORY

The Chemical Laboratories occupy the whole of the first and about half of the second floor of Culver Hall. The large northeast room on the second floor has been equipped with about forty new tables for quantitative work, and the balances and library have been transferred to adjoining rooms. In all courses, chemistry is taught by laboratory work, enforced by informal lectures, demonstrations, and short recitations.

The Mineralogical Laboratory is located on the second floor of Culver Hall.

CHANDLER HALL

Through the bequest of the late Frank Willis Daniels, of the Class of 1868, Chandler Hall, recently known as Moor Hall, has been purchased, reconstructed, and enlarged, and fitted for the special uses of the departments of Mathematics and Graphics. The first floor furnishes a large lecture-room, accommodating over two hundred persons, and rooms for the elementary courses in engineering; the second floor provides four well-arranged rooms for recitation work in mathematics, with private offices for the instructors; the third floor furnishes rooms for recitations, and two large rooms for mechanical drawing, with lighting from above.

The basement is devoted to testing and experimental work in the department of Engineering.

RELIGIOUS SERVICES

Prayers are conducted by the President each week-day morning in Rollins Chapel, and a vesper service is held on Sunday. All undergraduate students are required to be present.

The services of public worship, conducted by some member of the Board of Preachers, are held on Sunday mornings in the College Church. The preacher of the day is also at Bartlett Hall at four-thirty o'clock on Sunday afternoons to meet personally any students who may desire a conference with him.

Any student desiring to attend some other church in place of the College Church may indicate his choice at the time of registration. If a change is desired, after the choice has been made, permission must be gained from the Dean.

The Trustees have erected, for the use of the College Young Men's Christian Association, a large and carefully planned building, known as Bartlett Hall, providing a large audience hall and a reading-room, with rooms and ample facilities for Bible-classes, prayer-meetings, receptions, and social intercourse.

PHYSICAL CULTURE

This department is in charge of an Instructor and a Medical Director.

The Medical Director lectures on Physiology and Hygiene to the Freshman class during the first semester. All candidates for the Athletic Teams must be examined by the Instructor in Physical Culture before they can be accepted as members of a team, and each team is under medical supervision during the period in which it is engaged in sports.

The Instructor in Physical Culture who is also Director of the Gymnasium takes the measurement of all students entering College, and conducts the Gymnastic exercises for the Freshman Class during the winter months. The Gymnasium and Athletic Field are in his charge.

GYMNASIUM. This building, erected by the munificence of GEORGE H. BISSELL, Class of 1845, is supplied with necessary apparatus. It

has been refitted on the first floor with the latest improvements in shower and tub baths, closets, and lockers. It is open daily for the use of the students, and during the winter season a regular exercise is required of all members of the Freshman class, and voluntary divisions are formed among members of the other classes. The aim is to reach the large body of students who do not enter into athletic contests, rather than to train athletes.

ALUMNI ATHLETIC FIELD. Through the generous contributions of many of the Alumni, an admirable athletic field, with all the modern improvements, has recently been laid out near the College buildings. It is provided with all the necessary facilities for baseball, foot-ball, track athletics, and tennis; including a grand-stand seating six hundred spectators and containing dressing-rooms and shower-baths for the use of the students.

Students are admitted to golf and tennis privileges of the Hanover County Club at moderate rates by the month or season.

The general supervision of athletics in the College is committed to an Athletic Council, consisting of three non-resident Alumni, three members of the Faculty, and three undergraduates.

SANITARY CONDITIONS

The precinct of Hanover is healthfully situated upon a plain two hundred feet above the valley of the Connecticut. A system of waterworks, established at an expense of \$65,000, furnishes, in connection with the aqueduct before in use, an ample supply of water for all purposes. The precinct is also supplied with a thorough system of sewers.

In 1898 the College adopted the method of heating its buildings from a central station, and constructed a plant on the most approved plan at a cost of \$60,000; twenty of its buildings, dormitories, and recitation halls are heated in this way, ensuring a nearly equable temperature.

In case of illness, the Mary Hitchcock Memorial Hospital, constructed upon the latest modern plans, and widely known, since

its opening in 1893, as one of the best cottage hospitals in the country, furnishes the students such care and comfort as is seldom found outside of the larger cities. Two beds are furnished by the College, one directly and one by an alumnus, to meet the needs of students, who are unable to bear the expenses of sickness.

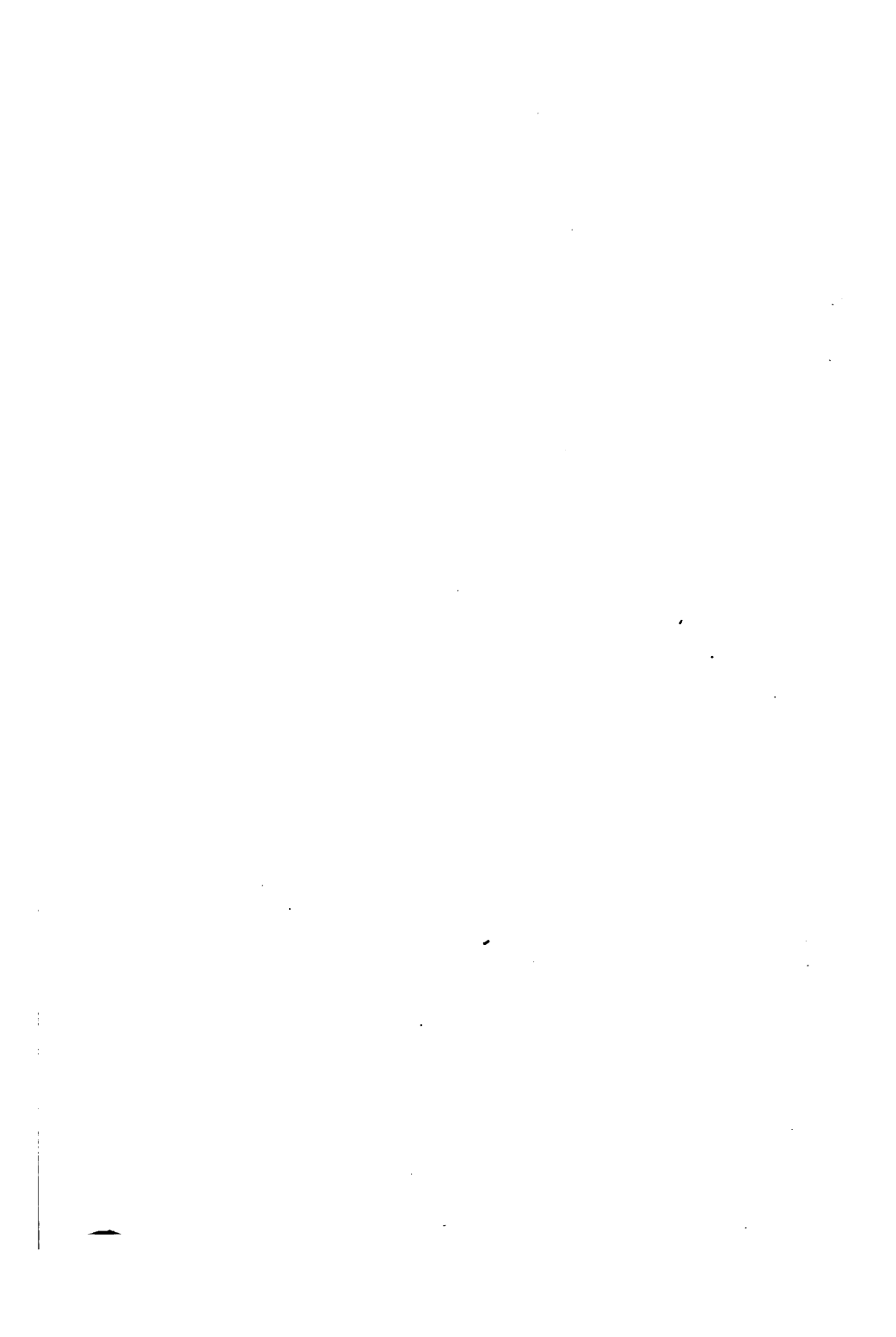
All the College buildings are under the direct care and inspection of Dr. Howard Nelson Kingsford, the Medical Director, and every case of illness among the students reported to him receives immediate attention.

RAILROAD CONNECTIONS

The railroad station is known as Norwich and Hanover, on the Passumpsic Division of the Boston and Maine Railroad. White River Junction, four miles south of Hanover, is the centre of four lines of railroads: the Concord Division (Boston and Maine system), making connection with Concord, Manchester, Nashua, Lowell, and Boston (four hours and forty minutes to Boston); the Central Vermont Railroad and the Connecticut River Division (B. and M. R. R.), making connection with Springfield, Hartford, New Haven, and New York (eight hours to New York); and also connecting at Greenfield (Fitchburg R. R.) and Springfield (Boston and Albany R. R.) for the West; the Central Vermont Railroad, making connection with Montpelier, Burlington, and the West (thirty hours to Chicago); the Passumpsic Division (B. and M. R. R.), making connection with Wells River, St. Johnsbury, Montreal, and Quebec (eight hours to Montreal).

THE HANOVER INN

The Trustees have entirely reconstructed and refurnished the College Inn for the entertainment of alumni, and friends of the students. The Inn is under the management of Mr. Arthur P. Fairfield, of the Class of 1900. Circulars giving all information in regard to location of rooms, prices, etc., can be obtained from him. The College Inn is open during the entire year.



THE AMOS TUCK SCHOOL OF ADMIN-
ISTRATION AND FINANCE



THE AMOS TUCK SCHOOL OF ADMINIS-
TRATION AND FINANCE

FACULTY

WILLIAM JEWETT TUCKER, D.D., LL.D., *President.*

JAMES FAIRBANKS COLBY, A.M., LL.D., *Parker Professor
of Law and Political Science.*

(Constitutional and International Law.)

JUSTIN HARVEY SMITH, A.M., *Professor of Modern History.*
(Modern History and Diplomacy.)

DAVID COLLIN WELLS, A.B., *Professor of Sociology.*
(Sociology and Labor Problems.)

WARREN AUSTIN ADAMS, PH.D., *Assistant Professor of
German.*

(German Composition and Conversation.)

GEORGE RAY WICKER, PH.D., *Instructor in Economics.*
(Banking and Public Finance.)

FRANK HAIGH DIXON, PH.D., *SECRETARY and Assistant
Professor of Economics.*

(Transportation, Finance, and Commerce.)

JOHN ELIOT ALLEN, A.B., LL.B., *Instructor in Law.*
(Commercial Law.)

CHARLES ARTHUR HOLDEN, C.E., *Instructor in Mathe-
matics, and Lecturer on Materials of Construction and Motors.*
(Commercial Mathematics.)

PRESCOTT ORDE SKINNER, A.M., *Instructor in French and
Spanish.*

(Spanish Composition and Conversation.)

HARLOW STAFFORD PERSON, PH.D., *Instructor in Commerce
and Industry.*
(Commercial Geography and Technique of Industry.)

HOMER EATON KEYES, B.L., *Instructor in English.*
(Commercial Correspondence.)

WILLIAM HENRY MURRAY, A.B., *Assistant in French.*
(French Composition and Conversation.)

LECTURERS AND INSTRUCTORS FOR THE YEAR

1902-1903

ULYSSES D. EDDY, Export Merchant, New York City.
South American Trade.

Mr. Eddy will be followed by lecturers upon the trade of Africa, Australasia, China and Japan, and England and Continental Europe.

ELMER L. CORTHELL, C.E., Formerly Consulting Engineer, Ministry of Public Works, Argentine Republic.

Argentine Republic: Its Industrial, Commercial, and Engineering Features.

FRANK SHERWIN STREETER, A.B., of the Concord, N. H., Bar.
Corporation Law and Administration.

JOSEPH AREND DEBOER, A.M., President of the National Life Insurance Company, Montpelier, Vt.
Theory and Practice of Life Insurance.

SUMNER BASS PEARMAIN, A.B., of the firm of Pearmain & Brooks, Stock and Bond Brokers, Boston, Mass.
Stock Exchange Methods.

SIMON NEWTON DEXTER NORTH, A.B., Secretary, National Wool Manufacturers' Association, Boston, Mass.
Textile Fibres and Manufactures.

EMIL S. FISCHER, of the firm of William Salomon & Co., Bankers, New York City.
Practical Foreign Exchange Methods.

JAMES SHIRLEY EATON, A.M., Statistician of the Lehigh Valley Railroad Company, New York City.
Railroad Methods and Administration.

MARSHALL PUTNAM THOMPSON, A.B., LL.B., of the Boston, Mass., Bar.
International Commercial Law and Bankruptcy.

EDWARD PARKHURST COMINS, Public Accountant, Boston, Mass.
Accounting and Auditing.

GEORGE THOMAS MOORE, PH.D., United States Department of
Agriculture.
Economic Botany.

EDWIN JULIUS BARTLETT, A.M., M.D., New Hampshire Professor
of Chemistry, Dartmouth College.
Economic Chemistry.

CHARLES HENRY RICHARDSON, PH.D., Instructor in Geology and
Mineralogy, Dartmouth College.
Economic Mineralogy.

Other lecturers will be announced later, including those on General Business Methods and on Foreign Trade referred to above. In addition to the courses of lectures, single lectures by specialists will be introduced from time to time.

Under the terms of the Amos Tuck Endowment Fund, the gift by Mr. Edward Tuck of the Class of 1862, of the sum of three hundred thousand dollars as a memorial to his father, the Honorable Amos Tuck of the Class of 1835, and a Trustee of the College from 1857 to 1866, especial provision was made for the "establishment of additional professorships within the College proper or in graduate departments." In accordance with this provision of the endowment fund for additional instruction in undergraduate and graduate courses, and with the direct approval of the donor, the Trustees of Dartmouth College have created the Amos Tuck School of Administration and Finance.

By a second gift of one hundred thousand dollars Mr. Tuck has made provision for the erection and maintenance of a building for the uses of the School. It is expected that the building will be ready for occupancy in the Academic year 1903-1904.

AIM OF THE SCHOOL

It has become evident that business to-day demands an increase in the number of well-trained and broad-minded men engaged in its service. The intense rivalry which characterizes industrial affairs

requires the presence of men of keen insight, solid ability, and the strictest integrity. The analysis of the causes of frequent failures in business leads to the conclusion that these qualities are still too uncommon. In foreign dealings as well as domestic, such men must take the lead if the United States is to hold its own and still further advance its position in the struggle for markets. The increased complexities that have accompanied the industrial development of the United States; the specialization in many departments which has transformed them into scientific pursuits and necessitated thorough technical equipment; above all, the accumulations of capital devoted to specific enterprises and the distribution of this capital through stock issues to investors of moderate means, have increased responsibility to such an extent that the necessity for the best training that our educational institutions can provide scarcely needs demonstration.

The courses of the Tuck School are designed to prepare men for those more modern forms of business which have become so exacting as to require the same quality of academic training as the older professions. While the School does not hope that such training as it can offer will take the place of apprenticeship in any business, it does expect that the trained man will enter upon his chosen career with such an intelligent grasp of the principles that underlie a given industry and with such a practical knowledge of its workings, that he will be able to shorten materially the probationary period, and advance to a position of responsibility and efficiency otherwise unattainable. That business is "practical" does not preclude the teaching of the principles of business in a scientific manner, and the rapid progress which many departments of industrial activity are making toward places of assured scientific standing makes the problem of satisfactory instruction an increasingly simple one.

The assertion often made that college unfits men for business is in part true. It has sprung, however, quite as much from the inability or unwillingness of the college graduate to accustom himself quickly to the rigid discipline and the rapid pace of business life, as from the lack of such preparation as is directly applicable to the work in hand. In the provision that the work of the Tuck School shall be graduate in character, both of these points have been held in mind. In the first place, the School rests its claim for recognition upon the proposition that business training, to be really effective in fitting men for the higher administrative posts, must be based upon the thorough education of the man through the medium of a complete college

course. The sound method seems to be to educate the man first and the business man afterwards. In the second place, by the requirement of graduate work, the student, freed from undergraduate associations and obligations, can be subjected to a course of training more rigid than the College can enforce, and be prepared by his experience to sympathize with the business discipline into which he is to enter. The School, in short, proposes to lay quite as much stress upon the disciplinary training that will create a proper business attitude, as upon the educational equipment of the individual. Finally, it hopes to so broaden the minds and raise the ideals of its graduates that it will do something to elevate the business community above the plane of mere money-getting.

The course comprises two years of work. The earlier part is carefully planned with a view to securing the most effective approach to the practical training of the final year. Historical, economic, sociological, and modern language courses of an advanced order are given, and freedom of election granted sufficient to insure consistency and natural development in the work of the entire course. The second year, both in grade of work and method of treatment, is quite distinct. It aims to encourage independence of thought and to foster and develop natural business inclinations. Not at all inconsistent with the high grade of scholarship required, is the thoroughly practical and unacademic character of the work.

It is proposed to train men for the more important phases of business activity which concern the distributive processes as distinguished from those technical productive processes that relate to manufacturing in its broader sense and for which the technological schools have provided instruction. The work of the resident faculty is supplemented by the lectures of specialists in their particular fields. 'Various phases of study are materially strengthened by conferences with business men, who give the practical touch and bring the students into contact with actual affairs.'

The instruction of the School has been organized with the view of meeting the needs of college men who propose to enter some one of the many departments of modern business. In the first place, specific training is offered in preparation for Private Banking, Brokerage and Investments, Insurance, Railroad Service and Water Transportation, and Foreign Trade.

In the second place, special effort has been made to adapt courses to the requirements of general mercantile or manufacturing busi-

nesses. Thorough study is made of the raw products of industry, of their stages of advancement to the completed product, of their costs and markets. A Commercial Museum is being created which will provide valuable illustrative material for this study as well as for work in Foreign Trade. Advanced courses in Statistics concern themselves with problems confronting business men, such as the causes of business failures. The proper relation of the employer to his workmen is made a subject of investigation. While it is not possible to give men who enter technical manufacturing industries the specific training which the technological schools offer, the scientific departments of the College and the Thayer School of Civil Engineering co-operate as far as is needed to give men a scientific insight into their chosen fields. It is the policy of the School carefully to avoid an over-emphasis of the commercial to the prejudice of the technical side of business.

Again, the School provides instruction of immediate value to those who are fitting themselves for Journalism, or for active participation in municipal and civic affairs, and especially for those who wish to prepare themselves for the Consular service of the United States.

Finally, as the name of the School indicates, Administration is one of its main concerns. Aside from the natural genius for executive position which no school can give, capability for administration consists largely in that lofty sense of responsibility that results from a disciplined mind and a fully matured judgment, and in that confidence in self and power of decision that rests upon knowledge. To the attainment of these ends, the instruction of the School addresses itself. Courses are offered in general corporate administration and in the administration of some of the great industries, such as railroads. In addition, the students are brought into contact with trained administrators.

Besides the courses framed to meet specific needs, a number are offered of a more general application, that are required of all students. Among the most important of these is an extended practical course in modern mercantile and corporation accounting and auditing conducted by professional accountants.

CONDITIONS OF ADMISSION

The School offers a two years' graduate course which is open to students under the following provisions:—

1. The School is open to those who have a bachelor's degree, provided their undergraduate work includes such preparation as is deemed adequate for entrance upon the work of the School. This preparation is in general as follows:

a. The usual college requirements in mathematics, the sciences, literature and philosophy.

b. (1) Modern Languages.—The elementary courses in two of the three languages of German, French and Spanish.

(2) English.—Two years' work in English Composition and Argumentation.

c. (1) History.—General History of Europe, representing one year's work, and an additional course, preferably in English or American History.

(2) Political Science.—Historical and critical course in the Elements of Politics.

(3) Economics.—A course in the Elements of Economics and one additional course, preferably in English Economic History.

(4) Sociology.—An elementary course, preferably in Anthropology and Ethnology.

2. a. Students who have pursued in their undergraduate curriculum work which is equivalent to that pursued in the first year of the School, will, after receiving their bachelor's degree, be registered in the second year.

b. Students of Dartmouth College of three years' undergraduate standing, who have fulfilled the requirements for entrance, may elect the first year courses of the School for their work of Senior year. At the close of the year they may formally graduate from the College with the bachelor's degree for which they entered. After a year of graduate work in the Tuck School, they become eligible for certification in that School.

3. STUDENTS FROM OTHER COLLEGES entering the Senior year of Dartmouth College, to avail themselves of the privilege offered in § 2b,

or who enter with a bachelor's degree under the provisions of § 1, must present, with their certificate of transfer or their degree a record of standing which shall meet the requirements of § 5.

4. **SPECIAL STUDENTS.**—Applicants who may show fitness to pursue particular courses, may be received as special students, and will be given certification for work actually accomplished, but will not be given the degree of the School. It is understood that this does not apply to students pursuing undergraduate work in Dartmouth College, except in cases where the amount of such work not yet completed is so small as not to interfere with the satisfactory pursuit of the work of the School.

5. **STANDING.**—In order to enter the first year of the School, students are required to have had a general average standing of not less than 75 in the branches required for admission, and not to have fallen short of 75 in more than two of those branches, nor below 60 in any one of them. While recognizing the necessity of establishing an academic standard as a general basis of judgment in determining the fitness of students for entrance, the Faculty will always reserve the right to make exceptions in favor of men who have shown in other ways exceptional ability to do the work of the School.

6. **APPLICATION.**—Formal application for admission must be made upon a blank provided for that purpose. This application must be approved by the President and the Secretary of the School before the applicant can be admitted.

ARRANGEMENT OF STUDIES

During the first year, students are required to elect eighteen hours each Semester. A portion of the work consists of courses given to First Year Men independently of those offered to Seniors in Dartmouth College. These courses include Commercial Geography, Statistics, Commercial Correspondence, and French Composition and Conversation. The remainder of the work is made up of electives chosen under the direction of the Secretary in the departments of History, Political Science, Economics, and Sociology. The separation of a part of the work of the first year from the Senior work in the College

is the beginning of a movement which will in the near future result in making the first year work of the School entirely independent.

The work of the second year permits of wider choice within the range of the following subjects: Modern Languages continued, Modern History, Diplomacy and Politics, Corporate Administration, Accounting and Auditing, Statistics, Business Organization and Procedure, Commercial Law, Commerce, Rail and Water Transportation, Insurance, Practical Banking, Brokerage and Investments. The length of the courses is determined by the character of the subject and not upon an arbitrary Semester basis. Students must hold themselves in readiness to crowd the work of any course into as short a space of time as the convenience of the individual instructor requires. Election of work for this year must be made under the direction of the Secretary.

PRELIMINARY COURSES REQUIRED FOR ENTRANCE

Courses in Dartmouth College or elsewhere regarded as equivalents, will be accepted in place of the courses here given.

ECONOMICS

1. *Elementary Economics.* The analysis of modern industrial society and the derivation of economic laws. Special attention will be paid to Economic Theory. Recitations with occasional lectures. (Bullock's *Introduction to the Study of Economics*.)

2. *Evolution of Industry and Commerce.* Rapid sketch of the development of English industry and commerce to the 18th century, followed by a more careful study of the Industrial Revolution and its effects. This will be followed by an examination of the commercial and industrial development of the 19th century and the characteristics of economic society to-day in both Europe and America. Lectures and quizzes.

HISTORY

1. *Mediæval and Modern European History.* Courses numbered 1 and 2 are treated as a continuous year's course in European History (exclusive of English) from the Teutonic Migrations to the close of the Seven Years' War (375-1763). The method of instruction is by lectures, with recitations on lectures, text-book, and additional readings.

2. *Mediæval and Modern European History (continued).* Methods of instruction as in Course 1.

In addition to the two courses given above, one other course in History is required and may be selected from the following courses.

3. *The History of England to the Sixteenth Century.* This course will consist primarily of the political history of the English nation, with such reference as is necessary to constitutional, economic, and intellectual development. Lectures, recitations, and reports. Required for admission to Course 4.

4. *The History of England and the British Empire from the Sixteenth Century.* This is a continuation of Course 3, and will include, in addition to the history of Great Britain, the development of the British Empire and the history of its colonies and dependencies. Open to those who have had Course 3. Lectures, recitations, and reports.

5. *American Colonial History to 1783.* This course is intended to trace the beginnings of the American Nation rather than the details of the history of the individual colonies. Emphasis is therefore laid on the European inheritance brought to this country by the colonists, their development of American institutions in the new environment, the expansion of population, the struggle between French and English for North America, the underlying causes of the Revolution, the growth of independence and union.

POLITICAL SCIENCE

2. *American Political Institutions.* A concise survey of the origin, development, and practical working of American political institutions. This course will include an historical review of the formation of the Federal Constitution and a study of that Constitution as a body of living principles; the working relations of the Federal and State

governments; the nature of the American State and the working of its government, and a brief examination of different forms of local and municipal governments. The general aim will be not only to prepare students by adequate information for the proper discharge of the duties of citizenship, but also to stimulate in them a thoughtful patriotism and quicken their sense of civic responsibility. Recitations and lectures.

SOCIOLOGY

1. *Anthropology and Ethnology.* This is an introductory course and should be taken by those who propose to take subsequent courses in Sociology. It is a study of man as the physical unit of society. It considers man's place in nature and the races and varieties of mankind. The method of treatment is both historical and descriptive. Each student is required to provide himself with a good atlas and to make constant use of the library for notes and reports. Lectures and recitations.

MODERN LANGUAGE

English. Two years' work in English is required for entrance. The work of the first year is in English Composition and Rhetoric. The work of the second year may be pursued in English Composition and Literary Analysis or in Argumentation and Debate at the option of the student. For further information, see pages 99-101.

Foreign Language. The elementary work in two of the three languages, German, French, and Spanish, is required for entrance to the School. This means in a general way two years' work in French and German and one year in Spanish. The work covered is pronunciation, grammar, composition, sight-reading and translation. For further information, see pages 103-112.

COURSES OF INSTRUCTION

FIRST YEAR

FIRST SEMESTER

The courses here presented are arranged to meet the greater present demand of students preparing for some phase of business in its generally understood meaning. Modifications of these requirements will be made to meet special needs. Those preparing for Journalism, for example, will be permitted wider elections in English.

Students are required to elect eighteen hours each semester. The following courses are required: Economics 7 and 9; Commercial Correspondence; and two of the three languages, German, French, and Spanish. The courses in Commercial Geography, Commercial Correspondence, and French are given independently to First Year Men and are not open to Seniors in Dartmouth College. The course in Transportation must be elected as a four hour course, three hours being taken with the Seniors, one hour additional being offered to First Year Tuck Men exclusively. From the remaining courses here presented the student must complete his schedule under the direction of the Secretary.

ECONOMICS

5. *Advanced Economic Theory.* A rapid survey of the history of economic theory, with assigned readings and reports, will be followed by a critical comparative study of Marshall, Boehm-Bawerk, Patten, Clark, and other modern theorists. Lectures and recitations. (Marshall's *Principles of Economics*.) Thirty-six exercises.

DR. WICKER.

7. *History and Theory of Transportation.* The history of railroad development in the United States and foreign countries with a study of the great railroad systems of the world. Theories of rates, combination, consolidation, community of ownership, and government ownership and control, both here and abroad, including a study of the Interstate Commerce Commission and State Commissions. Water transportation, lake, river, canal and ocean, its history and present condition, and its position as an aid to and competitor of railroads. Fifty-four exercises.

PROFESSOR DIXON.

9. *Commercial Geography: The Extractive Industries.* This course aims first to bring out the general principles of the relationship between man's environment and his industrial life, and then to take up a detailed study of the most important extractive industries, agriculture, horticulture, forestry, fishing, and mining. The technical aspect is especially emphasized, not with the object of developing specialists in any particular branch of one of these industries, but for the purpose of bringing out such technical information as is considered essential to the most thorough equipment of the director of a business enterprise. The study is not confined to any particular region, but involves a comparison of the conditions of development in all countries, showing how the natural conditions and processes of some countries have made for greater success than those of other countries. Fifty-four exercises.

DR. PERSON.

HISTORY

3. *The History of England to the Sixteenth Century.* This course will consist primarily of the political history of the English nation, with such reference as is necessary to constitutional, economic, and intellectual development. Lectures, recitations, and reports. Required for admission to Course 4. Fifty-four exercises.

PROFESSOR FAY.

5. *American Colonial History to 1783.* This course is intended to trace the beginnings of the American Nation rather than the details of the history of the individual colonies. Emphasis is therefore laid on the European inheritance brought to this country by the colonists, their development of American institutions in the new environment, the expansion of population, the struggle between French and English for North America, the underlying causes of the Revolution, the growth of independence and union. Fifty-four exercises.

PROFESSOR FOSTER.

MODERN HISTORY

1. *The Political History of Europe from the French Revolution to the Treaty of Berlin (1789-1878).* The course will open with lectures on the characteristics of the chief European peoples, the state of Europe on the eve of the French Revolution, and the early course of that movement. From this point the core of the work will be the mastery of a text-book, supplemented with formal lectures, comments,

recommended and required readings, essays, debates, and conferences. Due attention will be given to physical and political geography. Special stress will be laid on the vital process by which the Europe of a hundred years ago has become the Europe of to-day. Fifty-four exercises.

PROFESSOR SMITH.

POLITICAL SCIENCE

3. *American Constitutional Law.* This course is designed to give students a knowledge of the general principles of the Constitutional Law of the United States, both federal and statal. Particular attention is given to the origin and development of the written constitution in America, to the formation of the early State constitutions, and the various sources of the Federal Constitution and to its text. Recitations and lectures. (Cooley's *Principles of Constitutional Law.*) Thirty-six exercises, four hours a week for the first nine weeks.

PROFESSOR COLBY.

SOCIOLOGY

3. *Social Statistics.* This course begins with a study of Demography or the social groups given by Statistics. It considers the classification of the population in modern society due to physical or social causes. It then inquires into the results of Vital Statistics, such as the mortality from different diseases, birth and marriage rates under varying climatic and social conditions. Finally, the above data are brought into connection with Crime, Pauperism, and Social Reform. It is a study of the biological side of social life. Fifty-four exercises.

PROFESSOR WELLS.

MODERN LANGUAGE

ENGLISH. *Commercial Correspondence.* Training in business forms, and in the problems of correspondence which involve the correct use of terms and care in construction and expression. Eighteen exercises.

MR. KEYES.

Foreign Language. Each student is required to elect work in two of three languages, German, French, and Spanish. Students who choose German and Spanish will be assigned to classes in the College, entering upon the grade of work which their previous preparation permits. It is intended that this work shall be in advanced composition and conversation.

The work in French will be in the hands of a special Tuck School instructor who will give a course in composition and conversation,

keeping in mind the special needs of business men. It is expected that this method of instruction will be extended in the near future to all the language work of the School. Those whose equipment in one or more of these languages is considered adequate, will be permitted to substitute electives therefor.

FRENCH A. *Composition and Conversation.* Practice in speaking and writing French, with the aim of familiarizing the student with spoken French and training him in the use of the common idioms. This course will be conducted as an introduction to the more practical work of the second semester. Thirty-six exercises.

MR. MURRAY.

FIRST YEAR

SECOND SEMESTER

Students are required to elect eighteen hours. The following courses are required: Economics 4, 10, and 12; and two of the three languages, German, French, and Spanish. The courses in Commercial Geography, Statistics, and French are given independently to First Year Men and are not open to Seniors in Dartmouth College. The course in Money and Banking must be elected as a four hour course, three hours being taken with the Seniors, one hour additional being offered to First Year Tuck Men exclusively. From the remaining courses the student must complete his schedule under the direction of the Secretary.

ECONOMICS

4. *Money, Credit and Banking.* The origin of money and its natural history studied with the view of forming accurate and correct ideas regarding the nature and importance of a proper monetary policy. The history of monetary legislation in the United States. A study of the history of banking, especially in the United States, followed by a detailed analysis and discussion of banking operations. The banking systems of modern nations studied and compared. Lectures and recitations. (White's *Money and Banking*, and Dunbar's *Theory and History of Banking*.) Fifty-four exercises.

DR. WICKER.

6. *Public Finance.* A study of the expenditures and revenues of government, federal, state, and local, — especially in the United States. Various forms of taxation. Government debts. Budgets and bud-

getary legislation. The relation of the Federal treasury to the money market and to general business conditions. Lectures and recitations. (Daniels's *Public Finance*.) Fifty-four exercises. DR. WICKER.

8. *Labor*. A preliminary review of the economic theory of labor and wages, followed by a concrete, practical study of the present status of labor in the chief industrial nations. Among the more important topics to be treated are forms of remuneration, labor unions, strikes and boycotts, arbitration and conciliation, labor law in the United States and England. Lectures and recitations. Fifty-four exercises. DR. WICKER.

10. *Studies in Statistics*. Statistical methods and results will be studied through the investigation of various phases of economic development. Industrial statistics will receive special attention. Some attention will be given to the sources and reliability of statistical data and to the methods of distinguishing true and false inferences. Thirty-six exercises. DR. PERSON.

12. *Commercial Geography: The Manufacturing Industries*. This is a continuation of Course 9 of the first semester and aims to bring out information of the same practical value. It considers the technical and other conditions that have determined the development of the leading manufacturing industries; it studies the costs and processes in the stages of manufacture from the raw material to the completed product, and investigates the times, places, and opportunities for the sale of the manufactured product. Fifty-four exercises. DR. PERSON.

HISTORY

4. *The History of England and the British Empire from the Sixteenth Century*. This is a continuation of Course 3, and will include, in addition to the history of Great Britain, the development of the British Empire and the history of its colonies and dependencies. Open to those who have had Course 3. Lectures, recitations, and reports. Fifty-four exercises. PROFESSOR FAY.

MODERN HISTORY

2. *The Political History of the United States from the close of the Revolutionary War to the close of the Reconstruction period (1783 to 1877)*. This course will be conducted in the same general manner as Modern History I of the first semester, except that still more attention will be paid to collateral reading and original sources. Fifty-four exercises. PROFESSOR SMITH.

POLITICAL SCIENCE

8. *International Law.* This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized states, and their recent modifications by treaty. Recitations and lectures. (Lawrence's *International Law*.) Thirty-six exercises, for the last nine weeks.

PROFESSOR COLBY.

10. *Comparative Politics.* A study of the State, its nature and origin, form, functions, and ends, with a critical comparison of the present constitutions and the actual working of the governments of England, France, Germany, and the United States. (Wilson's *The State*; Lowell's *Governments and Political Parties of Continental Europe*.) Thirty-six exercises.

SOCIOLOGY

2. *Anthropological Geography.* This considers man in relation to his physical environment, as determining his dispersal over the face of the earth, his mode of life, and the density of population. It traces the bearings of the natural surroundings upon man's physical and mental characteristics, and follows this fundamental and necessary adjustment through the history of the family and the State and in the evolution of the forms of economic life. Fifty-four exercises.

PROFESSOR WELLS.

MODERN LANGUAGE

Foreign Languages. The work is a continuation of that of the first semester, two of the three languages, German, French, and Spanish being required. Following is the course in French presented as in the first semester by a special Tuck School instructor who shapes it to the needs of the students.

FRENCH B. *Composition and Conversation (continued).* The methods of the first semester will be continued, and in addition special attention will be given to numerals, dates, French money, and weights and measures. Letter writing in its simpler forms as an introduction to the work of the second year will be studied. This will give attention to the most approved style of address, and signature, and to concise and accurate form, and will treat principally of business letters, such as orders, receipts, and the like. Thirty-six exercises.

MR. MURRAY.

SECOND YEAR

The courses of the second year given below are not arranged upon an arbitrary semester basis. The length of each course is determined by the character of the subject. Students must hold themselves in readiness to crowd the work of any course into as short a space of time as the convenience of the individual instructor requires. Election of work for this year must be made under the direction of the Secretary.

ACCOUNTING AND AUDITING

A. *Theory and Practice of Accounts and Audit.*

(a) General Books, viz.: Cash Book, Journals, Ledgers, and subsidiary books and forms.

(b) Opening, conducting and closing accounts of Manufacturers and Dealers in Investment Securities. These two forms of accounts are taken as types, and from them are studied the general principles of accounting as applied to other financial undertakings.

(c) Trial Balance, Balance Sheet, Cost, Depreciation, Goodwill, Profit and Loss.

(d) Examinations of accounts for purposes of (1) extending credit, (2) ascertaining causes of insolvency, (3) ascertaining earnings for a series of years as a basis for capitalization and change from partnership to corporation.

(e) Various systems of accounting compared and analyzed.

(f) Auditing and arrangement of accounts with a view of facilitating an audit.

B. *Cost Systems.*

A careful study of systems of cost determination as introduced into various industries.

This entire course, A and B, is a practical study as distinct from a lecture course.

MR. COMINS.

CORPORATION FINANCE AND SECURITIES

A. *Corporation Finance.* Forms of investment securities, methods of corporation "financiering," consolidation, bankruptcy, receivership, reorganization, analysis of reports of corporations.

PROFESSOR DIXON.

B. *Money Markets and Speculation.* Money movements and exchange rates. New York as a financial centre. Note and bill brokers. Panics, signs of their approach and methods of meeting them. Relation of the Treasury to the money market. Foreign exchange. Methods of international payment, monetary standards of foreign countries as they influence international settlements. Detailed study of stock and produce exchanges, including a comparison of the exchanges of England and the continental countries with those of the United States. PROFESSOR DIXON.

C. *Investments.* History and general principles of investment. Discussion of various forms of investment both here and abroad with careful analysis of the investments of typical institutions such as trust estates, insurance companies, savings-banks and educational institutions. The legal side of investment with special reference to taxation. New openings for capital. PROFESSOR DIXON.

D. *Stock Exchange Methods.* Methods of business on the Stock Exchange from the broker's standpoint. MR. PEARMAIN.

BUSINESS ORGANIZATION AND PROCEDURE

A. *Industries of the United States: Extractive.* A detailed investigation of the industrial life of the United States and her colonies. In this course the development of the extractive industries is especially considered. The purpose being to bring out facts that will be of value to the practical business man, the technical aspect of these industries is especially emphasized. First, the most fundamental facts of the industrial life of the United States are considered — facts of geography, topography, geology, climate, race disposition, the distribution of population, the extent and distribution of resources. Then in turn the extractive industries are taken up, the history of each being traced for the purpose of showing how its present condition has been determined by the development of resources, technique, and markets. Finally a conservative estimate is made of the possible future development of these industries. DR. PERSON.

B. *Industries of the United States: Manufacturing.* This is a continuation of course A, attention being turned to the most important manufacturing as distinguished from extractive industries. The work

is conducted in the same manner, and involves an exhaustive technical study of the typical manufacturing industries of the United States.

The two courses just outlined will include study of actual products in the Commercial Museum now being established. DR. PERSON.

C. *Business Methods.* A discussion of methods of organization and management of large industrial plants. Questions of costs, labor, markets, and competition will be treated from the point of view of the business man.

D. *Relation of the Employer to Labor.* This course deals with the present relations of Capital and Labor in the United States. It investigates the statistics, organization, and methods of Trade Unions, their temper and tendencies, together with strikes and lockouts. It considers the social conditions which are fundamental to the economic relations of employers and wage receivers. This course is based on the belief that an understanding of the workingman's point of view is essential to the successful conduct of business.

PROFESSOR WELLS.

E. *Organization and Procedure of Typical Industries.* See under Transportation B, Banking A, and Administration A.

F. *Statistics of Business Experience.* See under Statistics and Mathematics A.

COMMERCE

A. *Commerce of the United States.* A careful analysis of the existing commerce of the United States with a consideration of America's competitive position in the markets of the world and the possibilities for extension. A study of international trade routes and the facilities employed, tariff laws of the more important trading countries, commercial treaties existing and prospective.

PROFESSOR DIXON.

B. *International Trade Relations.* A series of lectures by experts in the different fields upon the relations of the United States with the leading commercial countries. They will treat of the actual way in which business is done, — from the production of the merchandise to its delivery to the consumer in the foreign country; and from the production of the raw material in the foreign country to its de-

livery to the American manufacturer and its re-shipment abroad as manufactured merchandise.

The complete list of lecturers cannot be announced at this time, but will be made public in the near future. The subjects are as follows :

- (a) *South America*, Mr. Eddy.
- (b) *Africa*.
- (c) *Australasia*.
- (d) *China and Japan*.
- (e) *England and Continental Europe*.

C. *Materials of Commerce*. (a) *Economic Chemistry*. This will treat of the place of the chemist in the world's work, the source and history of the materials in the chemical industries, the struggle for existence, the utilization of by-products, the economic value of exact knowledge.

PROFESSOR BARTLETT.

(b) *Economic Botany*. This will aim to cover some of the most important aspects of those economic botanical problems which have a large part in practical affairs, and to demonstrate the place of the botanist in the commercial world. Sugar, Coffee, Wheat, Forestry, and allied topics will form the basis for a consideration of the botanical and agricultural questions involved, both in this country and abroad. Some attention will also be given to the conditions, natural and artificial, necessary for the successful establishment of these industries.

DR. MOORE.

(c) *Economic Mineralogy*. This will treat of the origin, distribution, identification, mining and reduction of ores, annual output, and practical application to arts and industries. The products treated will include quarry products, carbon minerals such as coal and petroleum, the precious metals, the useful metals, ores of the alkaline earths and alkalis, together with glass and sand.

DR. RICHARDSON.

(d) *Materials of Construction and Motors*. (1) Materials, source, use, preparation, testing and cost of wood, lime, cement, mortar, steel, steel-concrete construction, brick and building stones. (2) Motors, characteristics, adaptation and general construction of wind-mills, heat, steam and electric engines, water-wheels.

MR. HOLDEN.

D. *Statistics of Foreign Commerce*. (See under Statistics and Mathematics A.)

BANKING

A. Practical Banking. (a) *Organization.* The organization of a bank for business, with the duties and liabilities of its officers and employees. Comparative study of national, state, private, and savings banks, loan and trust companies. Clearing houses, their functions and administration.

(b) *Operation.* Practical methods of operation. Forms of credit transactions, note issues, domestic exchange. Comparative study of English and continental banks.

(c) *Law.* The main features of bank law in the United States and in typical states carefully studied. DR. WICKER.

TRANSPORTATION

A. Railroad Service. (a) *Organization.* The organization of a railroad for business, with a discussion of the duties of officers and employees.

(b) *Operation.* Practical methods of operation, including a careful study of the regulations governing all forms of railroad service. A study of the traffic department, including systems of car accounting. Theories of rates and methods of forming classifications and rate schedules. Fast freight lines, joint rates, and various forms of railroad associations.

(c) *Mechanics.* Study of the elements of railroad construction and maintenance and their costs. Details of locomotives and cars, their use, construction, and repair. Modern mechanical and safety devices including brakes, couplers, signalling systems, and the like. Purchasing Department, with consideration of properties of materials and railroad supplies. This section of the work will be conducted in part under Course G (2d part) in the Thayer School of Civil Engineering under the title "Economics of Location, Construction, and Maintenance of Railways."

(d) *Management.* Competition, discrimination, pooling, combination, consolidation, state ownership or control. PROFESSOR DIXON.

B. Railroad Operation and Administration.—From the accountant's standpoint. (a) *Transportation on a Railroad.* The moving of trains, single track, double track. How they are made up and broken. The hostling and care of engines at terminals. The yard work, various plans of switching. The stations and warehouses. How freight is handled, negotiation of its receipt and delivery.

(b) *Maintenance*. The forecast and recast of the work. The annual and monthly budget. How maintenance differs from transportation. Description and classification of maintenance. How the work of maintaining track and structures is carried on. How the cars and locomotives are kept up to standard. The various reports and analyses that keep the supervising officer in touch with the situation.

(c) *Revenue*. How assessed and collected. The safeguards thrown around its collection and remittance. The Travelling Auditor, his duties and his methods. The work of the freight and ticket accountants. The different systems of freight accounting. The clearing house, its advantages and limitations.

(d) *Disbursements*. What they are for. How they are made. The authorization of disbursements and the accounting and auditing. The classification of disbursements. The principles of disbursement statistics.

(e) *Cars and Power*. The methods of car distribution and balancing power. How daily disposition of car supply and power is watched. The interchange and accounting for cars. Mileage vs. *per diem*. Stores how bought and disbursed on a railroad, how watched and accounted for.

(f) *Organization of a small railroad—of a large railroad*. The divisional vs. the departmental plan. The significance of subordination. The dual capacity and how harmonized with the general plan.

MR. EATON.

C. *Water Transportation*. (Inland) (a) *Lakes and Rivers*. The service as a competitor of railroads. Character of lake and river traffic, its organization, facilities, rates and influence upon industry. Projects for its development.

(b) *Canals*. Their economic value, practical use and development within the country. Careful study of the Isthmian Canal problem.

PROFESSOR DIXON.

INSURANCE

A. A series of lectures designed to illustrate the practical workings of insurance as conducted to-day in all its important forms, with special reference to the United States. After a brief discussion of the economic conception of insurance, its history, development, problems, and social service, attention will be given to fire and

casualty insurance, to employer's liability and corporate suretyship, but special study will be devoted to its most highly developed form in life insurance. This will involve consideration of fundamental assumptions, rate-making, policy construction, varied benefits, field management, advertisements, compensation, solicitation, medical selection, practical accounting, investments, office-work, corporate management, state supervision, insurance law, insurance by the state. A critical estimate will be presented of the leading theories and different practices related to these questions, the object being to give a just estimate of the business, and a comprehensive knowledge of its present-day workings.

MR. DEBOER.

ADMINISTRATION

A. *Corporations and Corporate Administration.* Origin, history, creation, and dissolution of corporations. What is meant by franchise. Municipal and quasi-public corporations. Stock and Bonds. Corporations and partnerships distinguished; relation of stockholders to the corporation; power of majority; rights and remedies of minority stockholders. Officers and directors, their powers and duties; constitution and by-laws. Powers of corporations and their limits. Trusts. Methods of formation. State and Federal control. Practical administration of corporate business.

MR. STREETER.

B. *Railroad Administration.* See under Transportation B.

LAW

A. *Commercial Law.* An outline of the law of real property, including deeds, mortgages, and wills; of the law of contracts; of negotiable instruments; of personal property, including sales and bailments; of agency, carriers, insurance, and trustees.

B. *International Commercial Law.* The course comprises such general topics in private international law as are of practical importance to persons engaging in business in or with jurisdictions other than their own, together with more specialized instruction in the commercial codes of the principal European and Asiatic nations, including the organization of companies abroad, the provisions relative to American securities on the exchanges of Paris and Berlin, trade-marks and the method of collecting debts from foreign debtors.

MR. THOMPSON.

C. *Bankruptcy.* Lectures on the law of bankruptcy with special reference to the needs of business men.

MR. THOMPSON.

STATISTICS AND MATHEMATICS

A. *Commercial Statistics.* Critical study of the contributions of statistics to our knowledge of business methods and experience. Special attention will be given to business failures and to international trade balances.

DR. PERSON.

B. *Commercial Mathematics.* The aim in this course is to collect and correlate those principles in the various mathematical subjects which may be needed by the administrator or the financier, and to give the student proficiency in their use. The subjects treated are as follows: Metric System, reduction from the common system to the metric system and the reverse; Money, conversion of United States money into foreign money and vice versa; Percentage, determination of either base, rate per cent, or percentage when the other two are known; application made in problems relative to Profit and Loss, Trade Discounts and Brokerage, Interest (simple and compound), and Commercial Paper; Fire, Life and Accident Insurance tables and computations of rates; method of computing Foreign Exchange, and Stock and Bond values; Taxes and Duties; solution of problems in Partnership and Averaging of Accounts; estimation of Surfaces and Volumes; methods of quick computation; the use of Calculating Machines; determination of the Strength of Beams and Flow of Water; general principles of Least Squares.

MR. HOLDEN.

POLITICS AND DIPLOMACY

A. *Politics and Administration.* A study of American political parties since 1873; their organization and increasingly centralized control; their policies, and methods chosen for executing them; existing electoral machinery, its practical working and defects; some proposed remedies.

PROFESSOR COLBY.

B. *Diplomacy.* The subject of this course will be the business of international negotiation, and while necessarily parallel to international law, it will deal with that subject only as it must, and in an incidental way. Lectures will be given on the origin and evolution of modern diplomacy; the qualifications and methods of typical modern diplomats; the course of certain specially noteworthy negotiations from the Congress of Vienna to the Venezuela Case, including the evolution and history of the Monroe Doctrine; the organization of American and foreign diplomatic and consular ser-

vices; principles of diplomatic procedure; and the duties laid down by the United States Government for its agents in foreign countries. This course is intended to be practical rather than merely theoretical, and many workable ideas bearing not only on diplomatic but on business negotiation will be discovered.

PROFESSOR SMITH.

HISTORY

A. Modern History. This course will consist of lectures on Canada, Mexico, Australia and the principal countries of South America, Asia, and Africa. The main object will be to convey a knowledge of the history, character, and present circumstances of the people of these countries, and prepare students to deal intelligently with them. Under the direction of the instructor the students will do constructive work in the political history of Europe since 1878, each student covering a given period and profiting from the work of other students.

PROFESSOR SMITH.

MODERN LANGUAGE

Foreign Language. Students are required to pursue throughout the year one of the two languages taken in the first year. As in the first year, students who pursue German or Spanish will be assigned to classes in the College, and work will be continued in advanced composition and conversation. The work in French will be in the hands of a special Tuck School instructor who will arrange the course to meet the specific needs. This method of work will soon be extended to the other languages. Those whose equipment in the language is considered adequate, will be permitted to substitute an elective therefor.

The course in French is as follows:

FRENCH C. Composition and Conversation (advanced). A continuation of the work of the first year in more advanced form. Special attention will be given to all forms of business correspondence in French, and discussions in French will be held upon the current details of French commercial and industrial affairs.

MR. MURRAY.

CALENDAR

The calendar of the first year is the same as that of Dartmouth College. The year is divided into semesters, with the usual Christmas and Easter recesses, and closes the third week in June.

The second year is entirely independent of the College. One day of vacation is granted at Thanksgiving, and two weeks at Christmas. The Easter recess is omitted, and the year closes the first Wednesday in May. This plan has been adopted in order that the work of the concluding year may be concentrated, and that the student may take advantage of the opportunities of the early spring for entering business.

EXAMINATIONS

Examinations for first year students are held at the close of each College Semester, the examination periods being the same as those of the College. The examinations for second year students are held at the conclusion of each course, and additional examinations are given from time to time at the pleasure of the departments concerned.

In order to enter upon the work of the second year, students are required to maintain during the first year a general average standing of not less than 75 per cent and not to have fallen short of 75 per cent in more than two subjects, nor below 60 per cent in any one.

DEGREE

The degree of Master of Commercial Science will be conferred upon those who have completed and passed examinations upon the course of study of the School with credit and have presented and defended a satisfactory thesis.

THESIS

The subject of the thesis must be announced to the Secretary as early as the 1st of January of the year in which the student expects to take the degree.

The thesis must be completed and put in the hands of the Secretary as early as the 1st of April of that year.

Every candidate for the degree shall deposit a copy of his thesis typewritten, in the Library of the School before the close of the year.

The thesis after acceptance by the instructor concerned must be read and defended before a committee of the Faculty.

FINAL EXAMINATIONS

The examinations shall be both oral and written, and shall cover the work of the final year. The oral examinations shall be conducted in the presence of a committee of the Faculty by the instructor in whose department the principal part of the work of the student falls.

FEE

A fee of ten dollars is charged for the degree. This must in all cases be paid into the College Treasury ten days before the close of the year.

FACILITIES

The headquarters of the School is the Hubbard House, which contains reading-rooms provided with all periodical literature pertinent to the work, and seminary rooms possessing the necessary books, documents, and reports for the furtherance of investigation. The general library in Wilson Hall is available, and its equipment along the lines of work in the School will be made more complete and exhaustive as the demand for these facilities increases.

The recent additional gift by Mr. Edward Tuck of \$100,000 for a Tuck School building makes possible the provision in the near future of an equipment perfectly adapted to the demands of the work. Work has been begun on the new building, and it is expected that it will be ready for occupancy during the year 1903-1904.

The new building will provide accommodations for a Commercial Museum which is now being collected, a part of which will be available for use during the coming year.

EXPENSES

The tuition is the same as in the College, one hundred and ten dollars per year, payable one-half at the beginning of the year, the other half on March 10 succeeding. After 1902-1903, the tuition will be one hundred dollars. A further charge of twenty-five dollars will be made for certain privileges including the use of Library, membership in College Hall, and the various advantages growing out of the increase of the College plant. The scholarships provided for undergraduates are not available for students of the Tuck School except in so far as such students may be pursuing the work of the first year of the School as Seniors in Dartmouth College.

The expenses of a student will vary from \$275 to \$550 per year, the most important variable elements being room-rent and board. The College dormitories are open to students of the School. For further information, address

FRANK H. DIXON, *Secretary*,
HANOVER, N. H.



THAYER SCHOOL OF CIVIL
ENGINEERING



THAYER SCHOOL OF CIVIL ENGINEERING

FACULTY

WILLIAM JEWETT TUCKER, D.D., LL.D., *President.*

ROBERT FLETCHER, PH.D., *Director and Professor of Civil Engineering.*

JOHN V. HAZEN, C.E., *Associate Professor of Civil Engineering.*

JOHN L. MANN, C.E., *Assistant Professor of Civil Engineering and Surveying.*

CHARLES A. HOLDEN, C.E., *Instructor in Surveying.*

CHARLES H. RICHARDSON, PH.D., *Instructor in Economic Mineralogy and Lithology.*

FRANK EUGENE AUSTIN, B.S., *Instructor in Electrical Engineering.*

The THAYER SCHOOL OF CIVIL ENGINEERING was established more than a quarter of a century ago, to provide a *distinctively post-graduate* or professional course of study in Civil Engineering. In pursuance of this aim the founder, the late GENERAL SYLVANUS THAYER, Corps of Engineers, U. S. Army, a graduate of Dartmouth College in 1807, and distinguished as the organizer and "father" of the U. S. Military Academy, caused to be prepared a detailed "Programme" of the requisites for admission, covering the entire range of mathematics, chemistry, physics, and other studies, which were regarded as *preparatory*. No specific requirements in language, literature, history, and other subjects which give a broader mental training, were made, because at that time few could get the preparation demanded without attending College at least three years, and often during the usual period of four years. Hence, during the first twenty years of the Thayer School, 72 per cent of all who were ad-

mitted had already received the degree of B.S. or A.B., and of the remainder, 7 per cent had attended College three years, either as "classical" or "scientific" students.

It has been the consistent policy of the administration from the first to offer a general course of study in civil engineering, so developed as to include the essential principles and operations of all the important branches or divisions. There are no laboratories or special machinery for instruction in "mechanical engineering;" but the instruction in applied mathematics, mechanics and physics covers all of the fundamental theory of mechanical engineering, including the principal applications of electricity.

REQUIREMENTS FOR ADMISSION

1. English Grammar; 2. Geography; 3. History of the United States; 4. Arithmetic; 5. Book-keeping: only the simpler principles and methods of single and double entry; 6. Algebra, *Taylor* or *Bourdon*; 7. Geometry, *Legendre*; 8. Trigonometry and Mensuration; 9. Compass Surveying, *Murray*; 10. Descriptive Geometry, including Shades, Shadows, Perspective, *Church*; and Isometrical Drawing, *Warren*; 11. Analytic Geometry, *Bowser* or *Hardy*; 12. Calculus, *Hardy*; 13. Analytic Mechanics, *Wood's* Elementary; 14. Chemistry: as nearly as possible a course equivalent to Chemistry 2, 3, and 4 of Dartmouth College courses; 15. Physics: as nearly as possible the equivalent of Physics 1, 2, 3, and 4, of the College courses, (5 is desirable but not insisted upon); 16. Astronomy, *Young's* Elements; 17. Physical Geography and Meteorology.

The text-books indicated above are recommended, but others fully equivalent may be used.

Candidates for admission should be present for examination two days, at least, before July 15, or, by appointment, in May or June. Notice of intention to apply should be given by April 15, or earlier if possible. None will be received for advanced standing. Certificates from preparatory institutions, as to scholarship and character, will have due weight, but in all cases the candidate is orally examined, more especially with reference to the essential principles of the branches numbered 6, 7, 8, 10, 11, 12, 13, 14, and 15. Prompt and

accurate statement of principles and definitions is insisted upon, and a limited amount of blackboard work required. A neat set of mechanical drawings — constructions of important geometrical problems and a few leading problems of Descriptive Geometry — must be presented. Hence a fair degree of skill in mechanical drawing is one of the essential conditions.

Students of approved ability and proficiency in the Chandler Scientific Course of the College may elect the first year courses in the Thayer School for their work of Senior year. At the close of the year, they may formally graduate from the College with the degree of B.S. They may then become eligible for the degree of Civil Engineer, after pursuing the regular engineering courses of the second year group. For such students, the engineering course is technically "post-graduate" only for the second or last year.

The conditions for such election are: a "standing" of at least 75 per cent, in the aggregate, in the subjects above specified, and not less than 85 per cent in at least three, nor less than 60 per cent in any one; a special examination, as stated above; an intention to pursue, eventually, the entire engineering course, either in the next consecutive year, or as soon thereafter as the circumstances may permit. Only young men of correct habits and high character will be accepted or retained. Indulgence of an appetite for intoxicating drink will be sufficient reason for rejection of any applicant; — and such indulgence by an accepted member of the institution during his course will be sufficient cause for summary dismissal.

Students in Dartmouth College, in course of preparation for the Thayer School, are advised to take the following studies, both to meet the College requirements and to conform to present standards of qualification: —

FRESHMAN YEAR

First Semester

French 5 or 1
Graphics 1
English 1
Mathematics
* Spanish

Second Semester

French 6 or 2
Graphics 2
English 2, 8
Mathematics
Spanish

* In entering College students are advised to present French.

SOPHOMORE YEAR

First Semester

Graphics 3
 Mathematics
 Physics 1
 History 1
 Chemistry 3 or
 Biology 1, for those not presenting Chemistry on entrance

Second Semester

Graphics 4
 Mathematics
 Physics 2
 History 2
 Chemistry 4, or 2 for those not presenting Chemistry on entrance

JUNIOR YEAR

* Mathematics
 Physics 3
 Astronomy
 English 15
 Economics 1
 Biology 1
 or

Chemistry 3 for those not entering with Chemistry

Political Science 2
 Physics 4
 Engineering 2
 Philosophy 2
 Geology 2
 Biology 2
 or

Chemistry 4 for those not entering with Chemistry

* Mathematics : — Short courses in Differential Equations and Determinants are strongly urged because of their applications in the theory of electro-technics.

COURSE OF STUDY AND PRACTICE

FIRST YEAR

Thirty-nine weeks, excluding all intermissions, each week comprising eleven half-days, of four and a half hours, devoted to study, field-work, or office-work. In emergencies the half-day is extended to five or five and a half hours.

A — THEORY AND PRACTICE OF SURVEYING. [This is preceded by a preliminary course of 104 hours during Junior year in College.]

1. INSTRUMENTS — Engineer's transit, wye-level, dumpy level, prismatic compass and sextant; theory of and perfecting of all adjustments not required to be made by the maker; determining magnifying power of telescopes, sensitiveness of spirit levels and compass needles, etc.

2. PRELIMINARY PRACTICE, until a required degree of precision is attained, and in which each student shall, by himself, or as one of a party, do a piece of test work of each of the following kinds with satisfactory precision: — differential levelling; angle measurement in a small scheme of triangulation which is the basis of a systematic plan of survey for the season; a simple land survey involving ordinary measurement of lines and angles; measurement of a baseline 1500 feet or more in length by steel tape and method adequate to secure precision measured by a probable error not greater than 1 in 100,000; solar observations with engineer's transit for azimuth.

3. GENERAL PRACTICE — One topographical survey for a small contour map, including part of a village or town; one stadia survey of two to four or more miles making a closed circuit for checks; the routine of an ordinary railroad survey, preliminary and location, with some special practice in locating easement curves; some practice with the aneroid barometer, and prismatic compass and hand-level in reconnaissance. These surveys possibly may be co-ordinated so as to be plotted for the most part on one plan or map of the season's work, the office work for which will include the most approved methods of computing and use of planimeter and slide-rule, or more precise calculating machine when necessary.

4. SPECIAL METHODS and instruments, as use of the plane-table, photography in surveying, geodetical surveying, and special practice relating to city and underground surveys, etc., can only be briefly considered in the class-room, for the most part. Considerable practice in these specialties is nearly all beyond the domain of the school; the details are readily mastered in the future emergency by a proficient in what has preceded.

July 15 to Nov. 6, 180 half-days.

B — MECHANICS AND APPLICATIONS. Principles of kinematics, statics, and kinetics; data and laws of friction; elements of mechanism; important applications in the stability of structures, machine design, operation of hoisting machinery, action of the locomotive engine, etc. 65 half-days.

C — MATERIALS OF ENGINEERING. 1. Physical and chemical properties and production of limes, cements, mortars, natural and artificial stone, timber, iron, steel, zinc, copper, aluminum, etc.; durability, preservative materials; a brief course in Mineralogy. 2. Mechanical properties, analytically and experimentally treated. 3. Laboratory tests of cements, iron, steel, wood and other materials. 72 half-days.

A testing machine of 27,000 pounds capacity for tension, compression and bending stress, affords sufficient practical illustration of the mechanics of materials. Each student uses the machine in making prescribed series of tests.

Several series of cement tests are carried out each year by groups of two or three, and written reports of these are made to the Director in proper form.

D — ORDINARY AND SPECIAL STRUCTURAL WORK AND OPERATIVE DETAILS. Course begun:—Elementary courses on stone-cutting, masonry and foundations, arches and other masonry structures. 33 half-days.

E — FRAMED STRUCTURES:—TRUSSES FOR ROOFS AND BRIDGES, BUILDING SKELETONS, ETC. Course begun:—Graphical statics and other analysis applied to girders and simple trusses. Ordinary and essential details. One or two simple designs. 42 half-days.

G — ROADS, RAILROADS, AND TRANSPORTATION IN GENERAL, Course begun:—Roads, streets and pavements,—construction and maintenance. 16 to 18 half-days.

SECOND YEAR

Thirty weeks, of eleven half-days each, from about September 15 to April 10.

D —(concluded). Carpentry and framing; metal work; advanced reading on masonry and foundations; theory of retaining walls; dams; chimneys; high-framed buildings; fire-proof and slow-burning construction; renewals and enlargements. Engineering contracts and specifications. Auxiliary work and machinery. Inspection. 33 half-days.

E — (concluded). Analysis of stresses in trusses, framed arches, stone arches, and suspension bridges; details and maintenance. Frames of tall buildings. Tours for inspection. One design worked out. 50 half-days.

F — ROCKWORK, TUNNELING, AND MINING. Outlines of geology, — vacation reading. Explosives and blasting; special appliances and methods in subterranean works. Reading and lectures. 11 half-days.

Copper mines and furnaces in neighboring towns in Vermont, formerly very extensively worked, and now being actively exploited, afford the best of object lessons in mining and metallurgy.

G — (concluded). Economics of location, construction, and maintenance of railways. A brief study of street railways (electric and cable traction, etc.), mountain railways, telpherage, and marine transportation. 30 half-days.

Tuck School lectures on history and theory of transportation and on railroad operation and administration.

H — HYDRAULIC ENGINEERING. Statics and dynamics of fluids; principles and data of hydraulics; collection, storage, purification, and distribution of water for town supply, power, and irrigation. Hydraulic motors; theory, construction, and operation; development of water-power. Gauging of Connecticut River. Measurements of flow by weirs and nozzles, of efficiency of motors, friction in pipes, etc. 44 half-days.

The Hanover Waterworks, constructed at a cost of \$65,000, affords all needed conditions for hydraulic experiments under a head of 190 feet, in a laboratory equipped for all such operations of recognized importance. It is also an example of successful construction and operation, including a reservoir of 135,000,000 gallons capacity, a dam 700 feet long, gate-house, and main and distribution system of about 8 miles of pipe, all of which is available for inspection and for study of rainfall and its actual collection, water-ram in the pipes, efficiency of fire-streams, etc.

I — HEAT, HEAT ENGINES, AND POWER. Principles of Thermodynamics; fuels, and their combustion; steam. Heat engines: construction and operation of typical forms; application of laws. Development and transmission of power. 30 half-days.

The central steam-heating system of the College, serving 20 buildings, affords opportunity for studying efficiency of boilers and furnaces, at times when regular tests are made. The mills at Wilder, near by on the Connecticut River, give abundant facilities for studying the construction and operation of a water-power plant on a large scale.

J — SANITARY ENGINEERING. Drainage and sewerage; systems and appliances; governing principles. Heating and ventilation. Special study of "Separate Systems" and methods of sewage disposal. Sand filtration of water and sewage. 22 half-days.

The village has three separate systems of sewerage, one built by the College and adapted to a suitable disposal plant hereafter. Successful examples of heating and ventilation may be studied in the new buildings of the College. A set of model sand filters has been in operation for some years at the Thayer School building, and those who take special interest in the problem of the purification of water supply as affected by micro-organisms may arrange for such studies so far as time will permit.

K — CANALS, IMPROVEMENT OF RIVERS AND HARBORS. Principles; surveys and observations; construction in different cases, — means and methods of procedure. (Briefly by reading and lectures.) 7 half-days. [May be omitted if time fails.]

L — PRINCIPLES OF APPLIED ELECTRICITY. A brief course in the fundamentals of electro-technics and an elementary study of the problems of electric lighting, traction, and transmission of power. A small plant has been set up for laboratory instruction, which gives facilities for the measurement and operation of direct and alternating currents. 70 half-days.

METHODS OF INSTRUCTION. PRACTICE. During the first year, instruction is given chiefly by daily recitations from text-books and ample practice in field and laboratory. During the second year the character and range of subjects call for wider reading of treatises and current technical literature, which is promoted by full programmes of the courses, giving all of the important references to date. This is supplemented by recitations, lectures, and examinations.

The amount of field-work and other practice is made sufficient only to elucidate and emphasize the more important principles. In this

connection carefully planned tours, for the study and inspection of works in progress or completed, are made when advantageous for purposes of instruction.

SUMMER WORK-PERIOD AND INTERMEDIATE YEAR. In recent years opportunities for summer employment have exceeded the supply of available young men. In most cases the students are qualified only for quite subordinate positions as draughtsmen, assistants in city engineers' offices, on railway surveys or maintenance, U. S. Government surveys, etc. The advantages from such practice vary with the opportunity, character, and aptitude, and previous experience of the man. Some find it necessary or desirable to continue in such employment during the entire following year. These are entered in the Annual and College Catalogue as a non-resident division for an Intermediate Year.

BUSINESS RELATIONS OF THE ENGINEER. Arrangement is made for attendance of Thayer School students upon lectures given in the Tuck School of Administration and Finance, upon the law of contracts and upon organization of industrial plants, etc. On the other hand Tuck School students are invited to participate with Thayer School students in such parts of courses G and K as are appropriate to their own courses of study.

GENERAL QUALIFICATIONS OF A GRADUATE. He *must* have a good understanding of, and be adept in, the routine practice of surveying, so as to hold his place under an exacting chief of party; he must be, at the start, an acceptable junior draughtsman and an accurate computer, able to make a good original, a good tracing, and a blue-print; he must have a sufficient practical knowledge of the ordinary materials of construction, gained by adequate manipulations in the laboratory and by such observation and experience as every available opportunity will bring to him; and he must have developed the habit and instinct of making neat and accurate and sufficiently complete records, in a well-kept note-book, of the results of his observations and of his own work; also the habit and method of keeping himself well informed as to Engineering progress through current technical literature.

TERMS, EXAMINATIONS, AND EXPENSES

The course of study and practice continues through two years, commencing, for the entering class, July 15, and continuing until April 10. This allows twenty-one weeks of vacation for summer employment, when procurable. There may be a short recess at the Christmas holidays. Examinations are held from time to time, as the work progresses. The annual examination is held about the tenth of April, before the Board of Overseers.

Tuition is one hundred and twenty-five dollars per annum, one-half to be paid each semester in advance. There is no provision for pecuniary aid.

The annual expenses of an economical student will vary between \$350 and \$400, including tuition, books, and stationery, board, fuel, light, and drawing instruments.

Only those students who maintain an average of 75 per cent during the first year of the Thayer School work will be allowed to enter upon the courses of the second year, or be entered in the College catalogue as students of an Intermediate year.

After a satisfactory final examination before the Board of Overseers, including an acceptable thesis, the degree of Civil Engineer will be conferred.

The THAYER SCHOOL ANNUAL, published in August, 1902, contains further information relating to the work of the institution, its graduates, etc. This will be sent, and inquiries answered, on application to the President or

PROFESSOR ROBERT FLETCHER, *Director*.

MEDICAL SCHOOL



MEDICAL SCHOOL

FACULTY

WILLIAM JEWETT TUCKER, D.D., LL.D. PRESIDENT.

WILLIAM T. SMITH, M.D., LL.D., DEAN *and Professor of*
Physiology, and Instructor in Surgery. Hanover.

HENRY M. FIELD, M.D., *Professor Emeritus of Therapeutics.*
Pasadena, Cal.

PHINEAS S. CONNER, M.D., LL.D., *Professor Emeritus of*
Surgery. 215 W. 9th Street, Cincinnati.

WILLIAM H. PARISH, M.D., *Professor of Obstetrics.*
1435 Spruce Street, Philadelphia.

CHARLES B. NANCREDE, M.D., LL.D., *Professor of Surgery.*
Ann Arbor, Mich.

EDWIN J. BARTLETT, M.D., *Professor of Chemistry.* Hanover.

A. PALMER DUDLEY, M.D., *Professor of Gynecology.*
678 Madison Ave., New York City.

TILGHMAN M. BALLIET, M.D., *Professor of Therapeutics.*
3709 Powelton Ave., Philadelphia.

WILLIAM PATTEN, Ph.D., *Professor of Zoölogy.* Hanover.

GILMAN D. FROST, M.D., SECRETARY *and Professor of Anat-*
omy, and Instructor in Obstetrics. Hanover.

JOHN M. GILE, M.D., *Professor of the Science and Practice of*
Medicine, and Instructor in Gynecology. Hanover.

HOWARD N. KINGSFORD, M.D., *Professor of Pathology and*
Bacteriology. Hanover.

JOHN ORDRONAU, M.D., LL.D., *Professor of Medical Jurisprudence.*
Roslyn, N. Y.

GRANVILLE P. CONN, M.D., *Professor of Hygiene.*
Concord, N. H.

EDWARD COWLES, M.D., LL.D., *Professor of Mental Diseases.*
Waverley, Mass.

DAVID WEBSTER, M.D., *Professor of Ophthalmology.*
327 Madison Ave., New York City.

GEORGE A. LELAND, M.D., *Professor of Laryngology.*
669 Boylston Street, Boston.

JOHN H. GEROULD, Ph.D., *Instructor in Zoölogy.* Hanover.

SHEPHERD I. FRANZ, Ph.D., *Instructor in Physiology and Medical Physics.* Hanover.

GEORGE R. LYMAN, A.M., *Instructor in Botany.* Hanover.

CHARLES E. BOLSER, Ph.D., *Instructor in Chemistry.* Hanover.

ROBERT N. SEVERANCE, *Demonstrator of Anatomy.*
Leyden, Mass.

WILLIAM STICKNEY, B.L., *Demonstrator of Anatomy.*
Bethel, Vt.

DELEGATES FROM THE NEW HAMPSHIRE MEDICAL SOCIETY

GEORGE COOK, M.D. Concord, N. H.

EZRA MITCHELL, M.D. Lancaster, N. H.

DELEGATES FROM THE VERMONT MEDICAL SOCIETY

GEORGE E. BIDWELL, M.D. Waterbury, Vt.

MYRON L. CHANDLER, M.D. Barre, Vt.

CALENDAR

1902

July 15. Third and Fourth Year Courses began.

September 18. First and Second Year Courses began.

Recess from December 23, 10.00 A.M., to January 6, inclusive.

1903

February 21. Third and Fourth Year Courses end.

February 23, 24. Examinations by delegates.

February 24. Graduating exercises.

April 1. Second Year Course ends.

June 20. First Year Course ends.

July 14. Third and Fourth Year Courses begin.

September 24. First and Second Year Courses begin.

REQUIREMENTS FOR ADMISSION

Applicants for admission to this School must have

(a) graduated from a registered College, or

(b) satisfactorily completed a full course in a registered Academy or High School, or

(c) have had a preliminary education considered and accepted as fully equivalent, and upon bringing evidence of such preparation will be received on certificate.

All other candidates for admission, unless they can show by certificate from some approved fitting school or college that they have passed examinations in a part of the requirements, will be examined in all the following subjects :

English, History (two of the four parts, *a*, *b*, *c*, or *d*), Mathematics, Latin, Chemistry, and Physics, according to specifications given below.

SUBJECTS WITH SPECIFICATIONS

ENGLISH—

Two sets of books are prescribed for preparation in English, one for reading, the other for more careful study. No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs. The requirement consists of two parts.

I. *Reading* — A certain number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and be able to answer simple questions on the lives of the authors; he must also show the ability to write a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number — perhaps ten or fifteen — set before him. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may be allowed to present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination will be: —

In 1903, 1904, 1905, Shakespeare's *The Merchant of Venice* and *Julius Cæsar*; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

In 1906 — Shakespeare's *Macbeth* and *The Merchant of Venice*; The Sir Roger de Coverley Papers in *The Spectator*; Irving's *Life of Goldsmith*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe* and *The Lady of the Lake*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

II. *Study and Practice*. — This part of the requirement presupposes the thorough study of each of the works named below. The test will be upon subject-matter, form, and structure.

The books set for this part will be: —

In 1903, 1904, 1905, Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1906 — Shakespeare's *Julius Cæsar*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Milton*, and *Life of Johnson*.

HISTORY (including Historical Geography) —

- (a) The History of Greece to the death of Alexander, with due reference to Greek life, literature, and art.
- (b) The History of Rome to the accession of Commodus, with due reference to literature and government.
- (c) English History, with due reference to social and political development.
- (d) American History, with the elements of Civil Government.

A candidate may elect any two of the four divisions in History (*a*, *b*, *c*, or *d*).

(a) *Greek History* —

Oman's or Myers' History of Greece.

(b) *Roman History* —

Allen's Short History of the Roman People, and 300 pages additional reading.

(c) *English History* —

either Higginson and Channing's English History for Americans, *or* Montgomery's Leading Facts of English History, *or* Gardiner's English History for Schools, each with at least 300 pages additional reading, which may be selected from the following list : Creighton's Age of Elizabeth, Guest's Lectures on English History, Gardiner's Puritan Revolution, Freeman's Short History of the Norman Conquest, Green's Short History of the English People, Ch. i and Ch. vi, Sections iii-vii, Mrs. J. R. Green's Henry II, Macaulay's History of England, Ch. iii.

(d) *American History* —

either (1) Channing's Students' History of the United States or Johnston's History of the United States for Schools, each with 200 pages additional reading ;
or (2) Higginson's Young Folks' History of the United States, through Ch. xvi, and *either* Channing's United States, 1765-1865, *or* Johnston, from beginning of Period V ;
or (3) Higginson ; Lodge's English Colonies, Ch. ii and xxii ; Morse's John Quincy Adams, Ch. ii and iii ; Josiah Quincy's Figures of the Past.

MATHEMATICS —

Algebra — The fundamental operations, simple equations with applications to problems involving two or more unknown quantities, the principles of factoring, involution and evolution applied to expressions containing fractional and negative exponents, radicals, including imaginaries and radical equations, quadratic equations, with applications to problems involving two unknown quantities.

Plane Geometry — With the use of the metric system in the construction and solution of numerical problems based on the principal theorems.

LATIN —

The ability to translate at sight easy Latin prose.

The Latin book edited by Crothers and Bice for medical students, or something equivalent, is recommended for preparation for this examination.

CHEMISTRY —

Acquaintance by laboratory work with elementary processes and with the properties of substances common in chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on the relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry. Bartlett's Laboratory Exercises, Parts i-v (exclusive of Class i, Part ii), or equivalent. A certified notebook of laboratory work must be presented. The student should have had in addition recitations based upon any good elementary descriptive text-book through the non-metallic and metallic elements.

To meet the above requirement, at least 110 hours of elementary chemistry are necessary, one-half laboratory work, illustrating the preparation and the properties of the substances ordinarily treated in elementary chemistry. Qualitative Analysis will not be accepted as an equivalent for the laboratory work prescribed.

PHYSICS —

The equivalent of at least one hundred and ten one-hour exercises, of which as many as forty should be practical exercises in the laboratory. The student is expected, in the time devoted to the laboratory work, to perform at least forty experiments, and to have kept a neat and orderly record of the same in a note-book, described in his own words. This note-book should bear the certification of the instructor, and be presented for inspection at the time of the entrance examinations to the School.

The student should be taught, as far as possible, to apply the simpler principles of Algebra and Geometry to the solution of practical problems in Physics.

Any one of the following texts or manuals may be recommended for use in secondary schools preparing students for the Medical School: Elements of Physics, Carhart and Chute; Elements of Physics, Crew; A Text-Book of Physics, Hall and Bergen; Outlines of Physics, Nichols; Elements of Physics, Gage.

The Examinations for admission to the First or entering Class will be held in Room H, Chandler Hall, as follows: —

Physics	3.00 P.M., Sept. 17
Chemistry	3.00 P.M. " 18
Mathematics I	9.00 A.M. " 19
History I or II	3.00 P.M. " 19
Latin	9.00 A.M. " 21
English	3.00 P.M. " 21

ADMISSION TO THE SECOND CLASS

Students may be admitted without examination to the Second Class who present satisfactory evidence of having passed the examinations of the first year in an accredited Medical School.

ADMISSION TO THE THIRD CLASS

Candidates for admission to the Third Class must pass on July 10, 11, and 13, 1903, the examinations in Human Anatomy, Physiology, Inorganic and Medical Chemistry, Histology, and Bacteriology already taken by that class.

Such candidates should be in town July 9.

ADMISSION TO THE FOURTH CLASS

Candidates for admission to the Fourth Class must pass on July 10, 11, and 13, 1903, the examinations in Human Anatomy, Physiology, Inorganic and Medical Chemistry, Histology, Bacteriology, Materia Medica, and Pathology already taken by that class.

Such candidates should be in town July 9.

Students in the Academic department of Dartmouth College, may, at the beginning of their Senior year, matriculate in the Medical Department, and take during Senior year the work and the examinations of the first year of the Medical Department.

They will thus be able to earn the two degrees in seven years.

Students desiring to pass from the Academic to the Medical Department of the College must bring the certificate of the President of the College, with his approval of such transfer.

COURSE OF STUDY

Professor H. N. Kingsford, of Hanover, N. H., will give the opening lecture of the One Hundred and Seventh Annual Course on Tuesday, the fourteenth day of July, 1903, at 4 P. M.

Full courses in all departments of Medical Science will be given during the session of seven months' duration. For the convenience of non-resident professors, eight or nine lectures are given in each branch weekly until their part of the work in their several branches is finished. The work in each branch is then continued by the resident professors, by lectures, by recitations, by work in the laboratories, and by clinics and ward classes at the Hospital, until the end of the session, when a written examination in each branch is given.

The course covers four years, and students are required to complete the work of each year in regular order, passing an examination at the close of each year in the studies of that year.

FIRST YEAR

Chemistry, Medical Physics, Biology, Comparative Anatomy, Human Anatomy, Physiology.

SECOND YEAR

Systematic Anatomy, Physiology, Medical Chemistry, Bacteriology, Histology, Pathology, Embryology.

THIRD YEAR

Regional Anatomy, Pathology, Materia Medica, Obstetrics, Surgery, Medicine.

FOURTH YEAR

Therapeutics, Surgery, Medicine, Obstetrics, Gynecology, Mental Diseases, Medical Jurisprudence, Hygiene, Ophthalmology, Laryngology, Otology. Diseases of the Skin.

SCHEDULE, 1902-1903

FIRST YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9 A.M.	Semester I. Physiology. Lecture. Dr. Smith.		Semester I. Physiology. Lecture. Dr. Smith.		Semester I. Physiology. Lecture. Dr. Smith.	
8 A.M. } 9 A.M. }		Semesters I and II. Chemistry. Laboratory. Dr. Bartlett.		Semesters I and II. Chemistry. Laboratory. Dr. Bartlett.		Semesters I and II. Chemistry. Laboratory. Dr. Bartlett.
10 A.M.	{ Semester II. Physiology. Laboratory. Dr. Franz.	Semesters I and II. Human Anatomy. Recitation. Dr. Frost.		Semesters I and II. Human Anatomy. Recitation. Dr. Frost.	{ Semester II. Physiology. Laboratory. Dr. Franz.	Semesters I and II. Human Anatomy. Recitation. Dr. Frost.
11 A.M.			{ Semester II. Physiology. Laboratory. Dr. Franz.			
1 P.M. } 2 P.M. }	Semester I. Biology. Laboratory. Mr. Lyman.	Semester I. Medical Physics. Laboratory. Dr. Franz.	Semester I. Biology. Laboratory. Mr. Lyman.	Semester I. Medical Physics. Laboratory. Dr. Franz.	Semester I. Biology. Laboratory. Mr. Lyman.	
1 P.M. } 2 P.M. }	Semester II. Comparative Anat. Laboratory. Dr. Patten.		Semester II. Comparative Anat. Laboratory. Dr. Patten.		Semester II. Comparative Anat. Laboratory. Dr. Patten.	

SECOND YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 A.M. } 9 A.M. }	Physiology. Laboratory. Dr. Franz.	Semester I. Embryology. Laboratory. Dr. Patten.	Physiology. Laboratory. Dr. Franz.	Semester I. Embryology. Laboratory. Dr. Patten.	Physiology. Laboratory. Dr. Franz.	Semester I. Embryology. Laboratory. Dr. Patten.
10 A.M.	Anatomy. Recitation. Dr. Frost.	{ *Histology. Laboratory. Dr. Kingsford.	Anatomy. Recitation. Dr. Frost.	{ *Histology. Laboratory. Dr. Kingsford.	Anatomy. Recitation. Dr. Frost.	{ *Histology. Laboratory. Dr. Kingsford.
11 A.M.					Chemistry. Recitation. Dr. Bartlett.	
1 P.M. } 2 P.M. }	Dissection. Laboratory. Dr. Frost.	Chemistry. Laboratory. Dr. Bartlett.	Dissection. Laboratory. Dr. Frost.	Chemistry. Laboratory. Dr. Bartlett.	Dissection. Laboratory. Dr. Frost.	

* The course in Histology covers two-thirds of the year. A course in Bacteriology at the same hour covers the rest of the year.

THIRD YEAR

<i>Hour.</i>	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 A.M.				Pathology. Lecture. Dr. Kingsford.		Pathology. Lecture. Dr. Kingsford.
9 A.M.	Obstetrics. Recitation. Dr. Frost.	Anatomy. Recitation. Dr. Frost.	Obstetrics. Recitation. Dr. Frost.	Anatomy. Recitation. Dr. Frost.	Obstetrics. Recitation. Dr. Frost.	Anatomy. Recitation. Dr. Frost.
10 A.M.	Minor Surgery. Demonstration. Dr. Smith.		Minor Surgery. Demonstration. Dr. Smith.		Minor Surgery. Demonstration. Dr. Smith.	
11 A.M.	Therapeutics. Recitation. Dr. Gile.	Medicine. Recitation. Dr. Gile.	Therapeutics. Recitation. Dr. Gile.	Medicine. Recitation. Dr. Gile.	Pathology. Lecture. Dr. Kingsford.	Medicine. Recitation. Dr. Gile.
2 P.M. } 3 P.M. }	Pathology. Laboratory. Dr. Kingsford.	Dissection. Laboratory. Dr. Frost.	Dissection. Laboratory. Dr. Frost.	Dissection. Laboratory. Dr. Frost.	Pathology. Laboratory. Dr. Kingsford.	

FOURTH YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 A.M.	Medicine. Recitation. Dr. Gile.	Medicine. Recitation. Dr. Gile.	Medicine. Recitation. Dr. Gile.	Medicine. Recitation. Dr. Gile.	Medicine. Recitation. Dr. Gile.	Medicine. Recitation. Dr. Gile.
9 A.M.	Obstetrics. Recitation. Dr. Frost.	Surgery. Recitation. Dr. Smith.	Obstetrics. Recitation. Dr. Frost.	Surgery. Recitation. Dr. Smith.	Gynecology. Recitation. Dr. Gile.	Surgery. Recitation. Dr. Smith.
10 A.M.		Jurisprudence, Lecture. Dr. Ordronaux.		or Mental Diseases, Lecture. Dr. Cowles.		or Hygiene. Lecture. Dr. Conn.
11 A.M.	Therapeutics. Recitation. Dr. Gile.		Therapeutics. Recitation. Dr. Gile.			

Clinics at the Hospital mornings at 10 o'clock, and afternoons at 2 o'clock.

DEPARTMENTS OF INSTRUCTION

BIOLOGY AND COMPARATIVE ANATOMY

PROFESSOR PATTEN AND MR. LYMAN

FIRST YEAR

1. Elementary Biology. An introductory course giving a general survey of the field of Botany, some of the fundamental principles of Biology common to plants and animals, and a comprehensive review of the physiology, morphology, and reproduction of plants, special attention being paid to the lower plants and to the relation of fungi and bacteria to putrefaction, fermentation, and disease. The laboratory work involves the constant use of the compound microscope. One lecture and two laboratory exercises of two hours each per week. (Coulter's *Plants*.) First Semester, fifty-four exercises.

MR. LYMAN.

2. Comparative Anatomy of Vertebrates. The outlines of the classification of vertebrates, the homologies and the histological structure of vertebrate organs, the theories of the structure of the vertebrate head, and of the derivation of the Chordata will be discussed. The object of the course is to illustrate the evolution of the vertebrate type of animals from the lowest fishes, and related forms, up to man, and to discuss some of the conditions that are coincident with, or determine, the progressive modification of various vertebrate organs. (Wiedersheim's *Comparative Anatomy of Vertebrates*, Gray's *Anatomy*, and the embryological text-books of Minot, Hertwig-Mark, etc.) Second Semester, fifty-four two-hour exercises.

PROFESSOR PATTEN.

SECOND YEAR

3. Vertebrate Embryology. A study of the Embryology of the frog, the chick, and a mammal. (Minot's *Human Embryology*, Hertwig's *Embryology of Vertebrates*, Marshall's *Vertebrate Embryology*.) First Semester, seventy-two two-hour exercises.

PROFESSOR PATTEN.

MEDICAL PHYSICS

DR. FRANZ

A laboratory course with occasional informal lectures and recitations to correlate the work done in the laboratory. The topics included will be those essential to a proper understanding of physiology and allied subjects, (Daniells' *Physics for Students of Medicine*.) First Semester, thirty-six exercises.

ANATOMY

PROFESSOR G. D. FROST

FIRST YEAR

Osteology, Arthrology, and a preliminary study of the viscera. A course of recitations and demonstrations. Preparations from the Anatomical Museum are given out for study. An opportunity is offered to follow the dissections of the human body made by the men of the Second and Third classes. The written examinations covering the work in osteology and arthrology are final if satisfactory. (Gray's *Anatomy*, last edition.) First and Second Semesters, seventy-two exercises.

SECOND YEAR

Study of the muscles, blood vessels, lymphatics, and nerves by systems and by regions. Recitations and occasional lectures. Demonstrations by the instructor from manikins, plates, dried and wet preparations, and the cadaver. Dissection and demonstration of at least two parts by each student to the class. (Gray, Gerrish.)

THIRD YEAR

Study of the central nervous system and the viscera. Regional and Applied Anatomy. Lectures, recitations, and demonstrations. Dissection and demonstration of the remaining parts by the student. (Gray, Treves, Quain.)

PHYSIOLOGY

PROFESSOR W. T. SMITH AND DR. FRANZ

FIRST YEAR

1. A course of lectures and quizzes upon the essential facts of Physiology bringing them into relation as far as possible with future work. First Semester, fifty-four exercises.

PROFESSOR SMITH.

2. A laboratory course upon the physiology of nerve and muscle, and of the blood and circulation. Each student will perform the classic experiments in these subjects for himself. Second Semester, fifty-four exercises in the laboratory, two hours each.

DR. FRANZ.

SECOND YEAR

Four hours of laboratory work and one lecture or quiz each week.

The work to be done by the student includes experiments on digestion, respiration, the nervous system, and the special senses.

Demonstrations of some of the more difficult subjects will be made before the Class.

At some time in the second year each student will be expected to write a thesis on some topic included in the work, consulting as far as possible the original sources.

DR. FRANZ.

The Physiological Laboratory has recently been equipped with the latest apparatus. A sufficient number of complete sets has been provided to furnish one to every two students. These include kymograph, induction coil, and stimulating apparatus, tambours, apparatus to illustrate the circulation, etc.

The General Laboratory is furnished with instruments needed for research.

CHEMISTRY

PROFESSOR BARTLETT AND DR. BOLSER

FIRST YEAR

1. A systematic course, reviewing the Non-Metallic Elements rapidly, developing the more essential theories, and treating the

Metallic Elements and their compounds, by lectures, recitations (Newth's Inorganic Chemistry), and by Qualitative Analysis in the laboratory (A. A. Noyes's Qualitative Analysis). This course for completeness should be pursued through the year. It divides the time about equally between one-hour recitations and two-hour laboratory exercises. First and Second Semesters, fifty-four exercises in each, one or two hours.

DR. BOLSER.

2. Either at the end of the first year or the beginning of the second year a short course in the more important compounds of carbon is given.

PROFESSOR BARTLETT.

SECOND YEAR

3. Physiological and Medical Chemistry. A course with laboratory, lecture and recitation work giving special attention to the carbohydrates and albumens, to Toxicology and the applications of Chemistry to medicine. First Semester and till the recess in the Second Semester.

PROFESSOR BARTLETT.

HISTOLOGY, BACTERIOLOGY, AND PATHOLOGY

PROFESSOR KINGSFORD

SECOND YEAR

Histology. Laboratory work with recitations during the last few weeks of the course. The elementary tissues are first studied, then the various organs, including special study of the brain and cord. Each student may prepare and retain sections.

Six hours in the laboratory each week till the recess, two hours each week thereafter.

Bacteriology. Laboratory demonstrations supplemented by recitations. The aim in this course is to make it as practical as possible. Special attention is given to the examination of sputum for tubercle bacilli, to the diagnosis of diphtheria, the technic of the Widal serum diagnosis in typhoid fever, and to staining gonorrhoeal pus. Each student is required to isolate a number of different organisms. Special instruction is given to any student desirous of doing research work, either in bacteriology or pathology.

Four hours in the laboratory each week after the recess.

THIRD YEAR

Pathology. Lectures, illustrated by demonstrations of gross lesions whenever practicable. Laboratory work throughout the year. The laboratory work is devoted to the study of the pathological histology of inflammation, the infectious diseases, tumors, etc., with considerable attention to surgical pathology. The sections may be prepared and retained by the student. Three hours of lectures or recitations and four hours in the laboratory each week.

MATERIA MEDICA AND THERAPEUTICS

PROFESSOR BALLIET AND DR. GILE

THIRD YEAR

1. Materia Medica is taught by lectures and frequent quizzes during a combination course upon Materia Medica and Therapeutics of sixty hours.
PROFESSOR BALLIET.

THIRD AND FOURTH YEARS

2. Therapeutics. A course of sixty lectures with frequent quizzes and illustrations by the study of clinical cases at the Hospital.
PROFESSOR BALLIET.

3. Therapeutics. A course of recitations twice each week through these years.
DR. GILE.

GYNECOLOGY

PROFESSOR DUDLEY AND DR. GILE

THIRD AND FOURTH YEARS

1. A course of thirty-six lectures illustrated by diagrams, supplemented by clinical teaching at the Hospital. The students make examinations of the cases presented and follow the operations and after-treatment.
PROFESSOR DUDLEY.

2. Recitations once a week supplemented by further clinical instruction at the Hospital through the year, as described above. Clinical material is abundant.
DR. GILE.

OBSTETRICS

PROFESSOR PARISH AND DR. FROST

THIRD AND FOURTH YEARS

1. A course of forty-eight lectures illustrated by diagrams and the use of manikins, with occasional quizzes.

PROFESSOR PARISH.

2. Recitations with section work upon manikins by the student.

Preparation is thus secured for a course in the Out-Patient department of a Lying-In Hospital which the student is advised to take during the vacation at the end of the third year. Two hours each week.

DR. FROST.

3. A few maternity cases are received at the Hospital, and when possible they serve to illustrate to the students in small sections the teaching and methods of obstetrics.

SURGERY

PROFESSOR NANCREDE AND DR. SMITH

THIRD YEAR

1. A course in Minor Surgery given partly at the College and partly at the Hospital. Demonstrations and quizzes. Three hours each week.

DR. SMITH.

THIRD AND FOURTH YEARS

2. A course of seventy-two lectures supplemented by many clinical lectures and operations at the Hospital. The student is given cases to examine and study, and makes his report before the class.

PROFESSOR NANCREDE.

FOURTH YEAR

3. A course of recitations with further clinical lectures and study of individual cases by the student at the Hospital. Three hours each week.

DR. SMITH.

OPHTHALMOLOGY

PROFESSOR WEBSTER

A course of twelve didactic lectures with many clinical lectures and operations before the class. An excellent opportunity is afforded each student to study these cases.

LARYNGOLOGY AND OTOTOLOGY

PROFESSOR LELAND

A course of ten didactic lectures with clinical lectures and many operations before the class. Opportunity to study and follow the treatment of individual cases.

MEDICAL JURISPRUDENCE

PROFESSOR ORDRONAU

A course of ten didactic lectures.

MENTAL DISEASES

PROFESSOR COWLES

A course of ten didactic lectures.

HYGIENE

PROFESSOR CONN

A course of nine didactic lectures.

MEDICINE

PROFESSOR GILE

THIRD YEAR

1. Physical Diagnosis. Study of methods of examination and physical diagnosis with enough of pathological anatomy to make the variations in the physical signs intelligible. About one-third of the course is given to lectures, one-third to recitations, and one-third to clinics. Three hours each week.

FOURTH YEAR

2. Medicine. Lectures and recitations with clinical examinations at the Hospital through the year. Six hours each week, with one hour additional each week of clinical examination at the Hospital.

TEXT-BOOKS

ANATOMY — Gray, Gerrish, Quain, Treves.

HISTOLOGY — Piersol, Stöhr.

BACTERIOLOGY — Williams, Sternberg.

PHYSIOLOGY — Kirkes (Blakiston's edition). For reference, American Text-book of Physiology, Schäfer, Waller, Foster.

CHEMISTRY — Bartlett's Laboratory Exercises, Bartley's Medical, Tyson's or Purdy's Urinary Analysis, Newth's, Rockwood's Laboratory Manual.

THERAPEUTICS — Balliet's Notes, Wood, Bartholow.

PRACTICE OF MEDICINE — Osler, Tyson, Thompson.

PHYSICAL DIAGNOSIS — Loomis, Cabot.

PATHOLOGY — Ziegler, Coplin, Green.

SURGERY — American Text-book of Surgery, Nancrede, Wharton and Curtis, Park, Warren.

OBSTETRICS — Hirst, Lusk.

LARYNGOLOGY — Browne's Diseases of the Throat; Barr, Diseases of the Ear; McBride, Diseases of the Throat, Nose, and Ear; Bishop, Diseases of the Ear, Nose, and Throat.

DISEASES OF CHILDREN — Holt, Vogel, Rotch.

DISEASES OF WOMEN — Dudley, Reed.

MEDICAL JURISPRUDENCE — Taylor.

MEDICAL PHYSICS — Daniell.

BIOLOGY — Coulter's Plants.

COMPARATIVE ANATOMY — Wiedersheim.

EMBRYOLOGY — Foster and Balfour.

DICTIONARY — Gould, Duane, Dorland.

EXAMINATIONS AND GRADUATION

During the first year of the study of medicine in this school examinations *will be required* in Physics, General Biology, Comparative Anatomy, Chemistry, and Human Anatomy.

At the end of two full years of the study of medicine and two courses of lectures, an examination *will be required* in Systematic Anatomy, Physiology, Medical Chemistry, Histology, and Bacteriology. At the end of three full years of the study of medicine and three courses of lectures, an examination *will be required* in Systematic and Regional Anatomy, Physiology, Materia Medica, and Pathology. The examinations thus taken, if satisfactory, shall stand as final.

The fee for the second examination is five dollars; for the third examination, ten dollars. These sums will be deducted from the examination fee at the final examination.

Certificates of examinations passed at other Colleges are not accepted in place of our own examinations for a degree, except as stated under Requirements for Admission.

Every candidate for the degree of Doctor of Medicine must (1) be more than twenty-one years of age; (2) be of good moral character; (3) have graduated from a registered College or satisfactorily completed a full course in a registered academy or high school; or have had a preliminary education considered and accepted as fully equivalent; (4) have studied medicine (unless matriculated before January 1, 1898), not less than four full school years of at least nine months each, including four satisfactory courses of at least six months each, in four different calendar years, in a medical college registered as maintaining at the time, a satisfactory standard; (5) present evidence that he has dissected all parts of the cadaver; (6) pass a satisfactory written examination in Anatomy, Physiology, Chemistry, Medical Physics, Biology, Comparative Anatomy, Histology, Bacteriology, Pathology, Therapeutics, Surgery, Obstetrics, Materia Medica, Gynecology, and Practice.

Final (oral) examinations before Delegates from the New Hampshire and Vermont Medical Societies will be held on the last Monday of February, 1903.

EXPENSES

All fees must be paid in full at the opening of the session.

TUITION — For each of the four courses	\$125.00
Chemicals and ordinary breakage, First year	4.00
Second year	3.00
Bacteriological, Histological, and Pathological Material . .	3.00
Anatomical material	at cost

SCHOLARSHIPS

By the gift of one thousand dollars, Mrs. Mary H. Chamberlain of Princeton, New Jersey, has established, in memory of her husband, the William M. Chamberlain scholarship in Dartmouth Medical School. The income of the above-named sum is annually to be loaned to such worthy and indigent medical students as may need its aid toward payment of lecture fees. The loan is to be for four years, without interest. A few other scholarships are available on like terms.

HOSPITAL

The MARY HITCHCOCK MEMORIAL HOSPITAL has now been in use for nine years, and affords increased facilities for clinical instruction. It is a cottage hospital of thirty-six beds, and is constructed after the most approved modern style for such buildings.

A large and well-lighted amphitheatre is provided for witnessing operations, which are performed by members of the Faculty before the class, during the entire session.

An appointment of an advanced medical student as House Officer for the Hospital is made once in six months. He serves for six months as externe and then for an equal period as resident interne. His term of service begins on March 1st or September 1st.

Besides the use of the special collections and apparatus of the Medical School, the students derive incidental advantages from the other departments of the College. Medical Students have access to College Hall and to the College library, including a medical library, on the same terms with other students.

☞ Those desiring further information may address GILMAN D. FROST, M.D., Secretary, Hanover, N. H.



SUMMER SCHOOL



SUMMER SCHOOL

In the summer of 1899 a school was established in charge of members of the faculty, for the benefit of teachers who might wish to take short courses of College grade. The success of the school has led to more definite and continuous courses of study, available both to teachers and to college students. It is the object of the School to give instruction in Pedagogy, and in the methods of teaching specific subjects, and at the same time to make provision for advanced study, looking toward a degree. Certificates are given for attendance on lecture courses, for class-room or laboratory work, for examinations which are offered at the close of each course.

College students, taking courses which are marked as class-room courses or their equivalents, are given credit for these courses according to their value in the curriculum.

COURSES OF INSTRUCTION OFFERED IN 1903

THE HISTORY AND PHILOSOPHY OF EDUCATION — MR. LEWIS AND PROFESSOR HORNE

This course will consist of thirty hour-lectures, the first ten being given by Mr. Lewis on "Ten Great Modern Educators," and the remaining twenty by Professor Horne on the "Philosophy of Education," including discussions of the nature of education from biological, physiological, sociological, psychological, and philosophical points of view. The aim of the course is to give teachers a broad conception both of the practice and of the theory of education.

This is equivalent to a course of two semester hours.

HISTORY — PROFESSOR FOSTER

1. (a) Mediæval and Modern European History (375-1878). Twenty lectures designed to give teachers a brief outline of histori-

cal development, and some understanding of those great achievements and institutions which have vitally influenced modern Europe and America.

(b) English History in the Tudor and Stuart period (1485-1689). Ten lectures outlining national development and those relations with the Continent and America, essential to satisfactory teaching of European and American History.

2. American Colonial History to 1783. Emphasis is laid on the development of American institutions and the beginnings of the nation, rather than on details in the history of individual colonies; but one or two lectures will illustrate treatment of state and local history. Twenty-five lectures. Five conferences on optional reading and reports designed for training in the use of sources and other historical material including, where desired, the teacher's preparation of lectures. The same as Course 5, page 138, for those covering reading and reports.

ENGLISH — PROFESSOR EMERY

1. (a) English Literature. The works chosen for study will be mainly those required for entrance to college. The object of the course is to insure acquaintance with the literature itself and to fix some general standards of criticism.

(b) Courses and Methods of Teaching English.

(c) Readings from Shakespeare.

2. Composition and Rhetoric. An introduction to the study of Rhetoric, with practice in theme correcting. This may be made equivalent to Course 1 or Course 2, page 99

FRENCH — PROFESSOR LANGLEY

1. Phonetics of French; careful practice in pronunciation; composition and conversation; translation and rapid reading of texts; discussion of problems of teaching French. This may be made equivalent to Course 5, page 104.

2. A more advanced course with special instruction in bibliography and use of the library. This may be made equivalent to Course 9, page 105.

In both courses, direction in private literary study and instruction in bibliography and use of the library will be given.

SPANISH — PROFESSOR LANGLEY

The course is intended for beginners, but may also be taken with profit by those having some knowledge of the language. The work will be in Spanish grammar, composition, and translation, and will be adjusted to the needs of the members of the class. This may be made Spanish 1, page 108.

MATHEMATICS — PROFESSOR WORTHEN

1. Course for teachers. Outlines of Arithmetic, Algebra, Plane and Solid Geometry, with discussion of methods. Graphic Algebra, and Algebraic Geometry.

2. Algebra. Course 1, page 114, may be completed if only one course is taken.

3. Analytic Geometry. Courses 5 and 7, page 115, may be completed if only one course is taken.

PHYSICS — PROFESSOR HULL

The purpose of the courses are threefold; to serve as a rapid review to those already familiar with general Physics, to broaden the student's previous knowledge, and to illustrate methods of clear and forcible presentation of the fundamental principles of Physics. The courses will consist in large part of laboratory work in quantitative illustration of the more important laws, and in practice in methods of accurate measurement. The laboratory work in each case can be adapted to the preparation and needs of the individual student.

This may be made Course 3, or Course 4, page 120, by those who are well prepared.

CHEMISTRY — PROFESSOR BARTLETT WITH ASSISTANTS

1. Elementary Chemistry, with laboratory work corresponding to Course 2, page 124.

2. Qualitative analysis. This may be made Course 3, or Course 4, pages 124-125, by those who are well prepared.

3. Special course for teachers: discussion of methods, preparation of re-agents, inorganic preparations, experiments of some complexity with demonstrations by the student before the class. Quantitative experiments.

NATURE STUDY — MR. LAMBERT

This course is intended to furnish teachers with methods of observation and instruction. There will be thirty exercises, the time being employed both in the laboratory and in the field.

Special attention will be paid to the collection and classification of material, its preparation and preservation for use in the school, the equipment and care of aquaria, etc. Some of the time will be given to reports of individual observations.

Some of the above courses may not be given if less than five applications for them are received.

ADDITIONAL COURSES

The following courses will be given if five or more applications are received by June 15: Teachers' courses in Greek, and in Latin, Old English, Course 17, page 102. Philology, Course 5, page 113. Teachers' course in German, also for students who have taken two years of German. Solid Geometry, Course 2, page 114. Trigonometry, Course 4, page 114. Differential Calculus, Courses 9 and 10, page 115. Botany, Course 1, page 128. Zoölogy, Course 2, page 128. Economics, Course 1, page 141, and other College courses.

EVENING LECTURES

During the session a series of lectures will be given on Wednesday evenings.

LIST OF SPEAKERS AND SUBJECTS

Professor T. W. D. Worthen, "Mathematics in Education."

Professor H. D. Foster, "Castle Life in Germany." Illustrated.

Dr. G. D. Frost, "The Physical Rights of the Individual Student."

Professor F. P. Emery, "Some Phases of Early American Literature."

Professor H. H. Horne, "Some Contemporary Educational Tendencies."

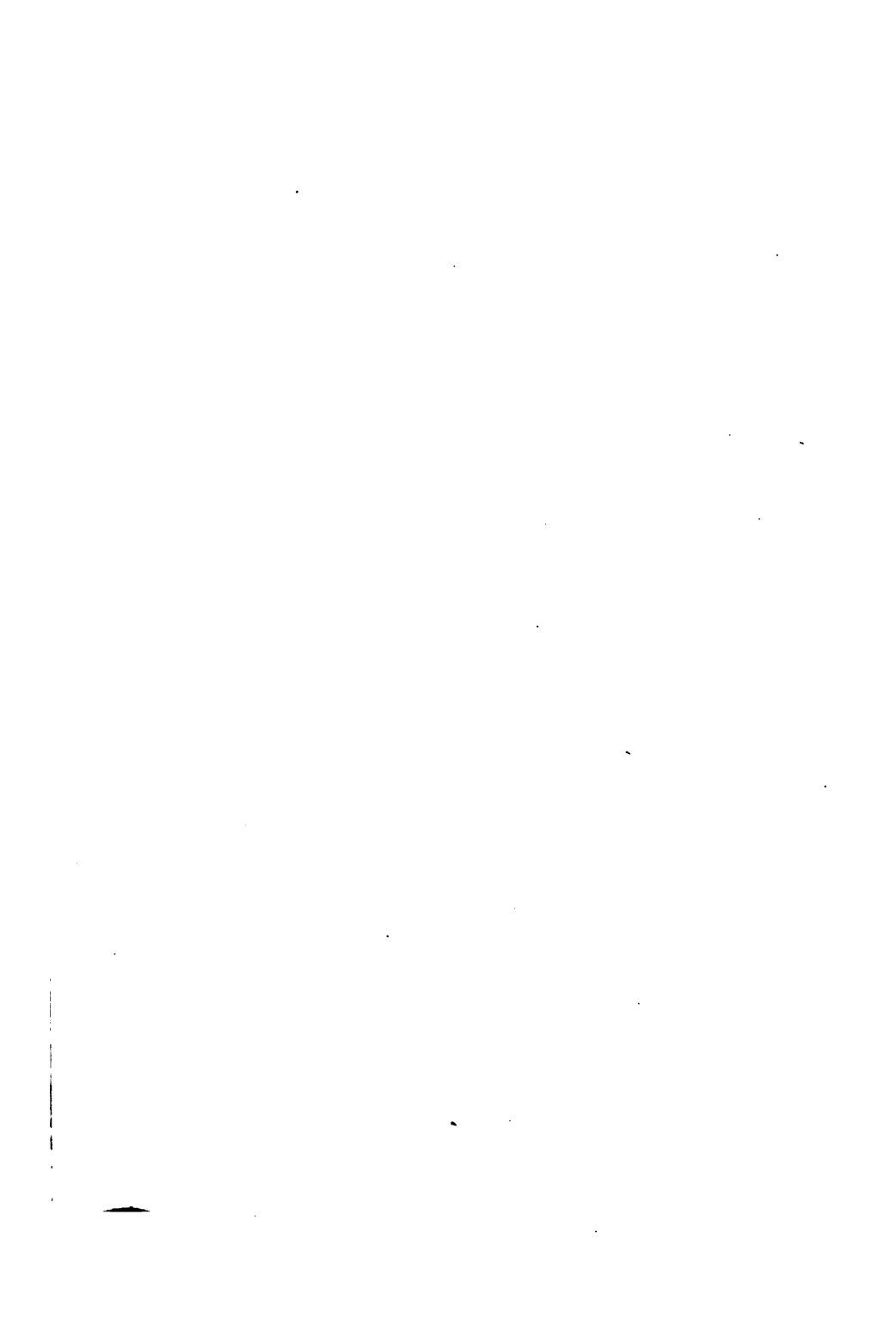
The libraries, reading and reference rooms, museum, and gymnasium are open to students of the Summer School.

The single tuition fee for the session, whether one or more courses be taken, is \$20, and the laboratory fees are those charged by the departments for the corresponding courses in College.

The next session will open July 13, and close August 14, 1903. A circular containing a more extended description of the courses will be issued early in the new year.

For further information, address Professor T. W. D. Worthen, Director.

ALUMNI ASSOCIATIONS



ALUMNI ASSOCIATIONS

THE GENERAL ASSOCIATION

FOUNDED IN 1854

President, JOHN L. HILDRETH, '64.

Vice-Presidents, { CHARLES W. BARTLETT, '69.
EDWARD N. PEARSON, '81.

Secretary, FRANK A. SHERMAN, '70, Hanover, N. H.

Statistical Secretary, JOHN M. COMSTOCK, '77, Chelsea, Vt.

Treasurer, PERLEY R. BUGBEE, '90, Hanover, N. H.

Executive Committee :

WILDER L. BURNAP, '63 (*Chairman*). GEORGE H. M. ROWE, '64.

ISAAC F. PAUL, '78 (*Secretary*). HOWARD F. HILL, '67.

EDWIN F. JONES, '80. T. W. D. WORTHEN, '72.

WILLIAM H. GARDINER, '76.

Committee on Alumni Trustees :

EDWIN B. HALE, '65 (*Chairman*). JOSEPH A. DEBOER, '84.

SHERMAN E. BURROUGHS, '94. GEO. W. ESTABROOK, '61.

JOHN GAULT, '95.

The membership includes all graduates of the College, the Thayer School of Civil Engineering, and the Chandler School of Science and the Arts. Others who receive from the College an Honorary Degree, or are elected at an Annual Meeting, shall be honorary members, but without the right of voting.

The Annual Meeting is held in the old chapel in Dartmouth Hall on Tuesday afternoon of Commencement week. The Alumni Dinner occurs on Wednesday, Commencement Day.

☞ The attention of the Alumni is called to the fact that the Commencement exercises occur on Wednesday instead of Thursday.

By an arrangement with the Trustees of the College, five of their number are elected to their office upon the nomination by ballot of all Alumni of the College of three years' standing, one vacancy occurring in the Board at each Commencement.

Ballot forms, containing the names of five candidates who have been selected by the Nominating Committee for the vacancy, are sent to all Alumni two months before Commencement, and the voting closes at 6 P.M. on Tuesday evening of Commencement week.

LOCAL ASSOCIATIONS

BOSTON ASSOCIATION, FOUNDED IN 1864

President, STEPHEN M. CROSBY, '49.

Secretary, GUY W. COX, '93, 73 Tremont St.

Annual Reunion, third Wednesday in January.

NEW YORK ASSOCIATION, FOUNDED IN 1866

President, CHARLES M. HOUGH, '79.

Secretary, ALFRED A. WHEAT, '89, 195 Broadway.

Annual Reunion, last Friday in January.

CINCINNATI ASSOCIATION, FOUNDED IN 1875

President, GEORGE B. PARKINSON, '75.

Secretary, ALBERT H. MORRILL, '97, City Hall.

Annual Reunion in January.

WASHINGTON ASSOCIATION, FOUNDED IN 1876

President, CHARLES A. PROUTY, '75.

Secretary, HENRY P. BLAIR, '89, 213 E. Capitol St.

Annual Reunion in January.

CHICAGO ASSOCIATION, FOUNDED IN 1876

President, EDWIN C. CRAWFORD, '74.

Secretary, JOSEPH A. FORD, '95, Room 1529, Marquette Building.

Annual Reunion in January.

NORTHWEST ASSOCIATION, FOUNDED IN 1880

President, CHARLES L. SAWYER, '88.*Secretary*, FRANK H. CARLETON, '72, New York Life Bldg., Minneapolis, Minn.

Annual Reunion at Minneapolis in January.

PACIFIC COAST ASSOCIATION, FOUNDED IN 1881

President, THOMAS FLINT, JR., '80.*Secretary*, THOMAS A. PERKINS, '90, Crocker Building, San Francisco, Cal.

Annual Reunion, second Thursday in April.

MANCHESTER (N.H.) ASSOCIATION, FOUNDED IN 1881

President, ELIJAH M. TOPLIFF, '52.*Secretary*, ARTHUR H. HALE, '86.

Annual Reunion, second Tuesday in January.

CONCORD (N.H.) ASSOCIATION, FOUNDED IN 1891

President, J. EASTMAN PECKER, '58.*Secretary*, WALTER H. FLETCHER, '00.

Annual Reunion, last Wednesday in January.

CENTRAL AND WESTERN MASSACHUSETTS ASSOCIATION,
FOUNDED IN 1892*President*, ELISHA B. MAYNARD, '67.*Secretary*, NEWTON M. HALL, '88, Springfield.

Annual Reunion at Worcester or at Springfield.

VERMONT ASSOCIATION, FOUNDED IN 1893

President, WILDER L. BURNAP, '63.*Secretary*, FRED A. HOWLAND, '87, Montpelier.

Annual Reunion at Montpelier in October.

"THE GREAT DIVIDE" ASSOCIATION, FOUNDED IN 1895

President, OSCAR J. PFEIFFER, '77.*Secretary*, FRANK E. GOVE, '88, Denver, Colo.

Annual Reunion at Denver, second Tuesday in January.

DETROIT ASSOCIATION, FOUNDED IN 1895

President, ALFRED RUSSELL, '50.*Secretary*, WILLIAM S. SAYRES, '76, 163 West Willis Ave.

ROCKY MOUNTAIN ASSOCIATION, FOUNDED IN 1895

President, CLINTON H. MOORE, '74.*Secretary*, ARTHUR G. LOMBARD, '79, Helena, Mont.

"OF THE PLAIN" ASSOCIATION, FOUNDED IN 1898

President, SILAS H. BURNHAM, '74.*Secretary*, CHARLES W. POLLARD, '95, 409 Paxton Block, Omaha, Neb.

MEDICAL SCHOOL ASSOCIATION, FOUNDED IN 1886

President, GRANVILLE P. CONN, M.D., '56.*Secretary*, HOWARD N. KINGSFORD, M.D., '98, Hanover, N. H.

Annual Reunion at Concord, N. H., at the time of the meeting of the New Hampshire Medical Society, about June first.

THE DARTMOUTH CLUB OF BOSTON, FOUNDED IN 1890

President, ISAAC F. PAUL, '78.*Secretary*, HORACE G. PENDER, '97, 209 Washington St.

Regular meetings and dinners are held each month during the year, excepting January, July, August, and September. They are held alternately at the University Club, 270 Beacon Street, on the evening of the second Friday of the month, and at some down-town hotel, notice of which is given in advance, on the afternoon of the second Saturday of the month. The Annual Meeting is that held in December.

THE DARTMOUTH CLUB OF THE CITY OF NEW YORK,
FOUNDED IN 1899*President*, WILLIAM N. COHEN, '79.*Secretary*, CLARENCE G. MCDAVITT, '00, 256 Broadway.

Regular meetings and dinners are held on the first Friday of March, June, October, and December. The Annual Meeting is that held in December. The place of meeting is at the rooms of the Aldine Association, 111 Fifth Avenue.

THE DARTMOUTH CLUB OF PHILADELPHIA, FOUNDED IN 1902

President, OTIS E. HOVEY, '85.

Secretary, FREDERICK V. BEMIS, '98, 933 Market St.

Regular meetings and dinners are held on the second Saturday of each month.

PUBLICATIONS

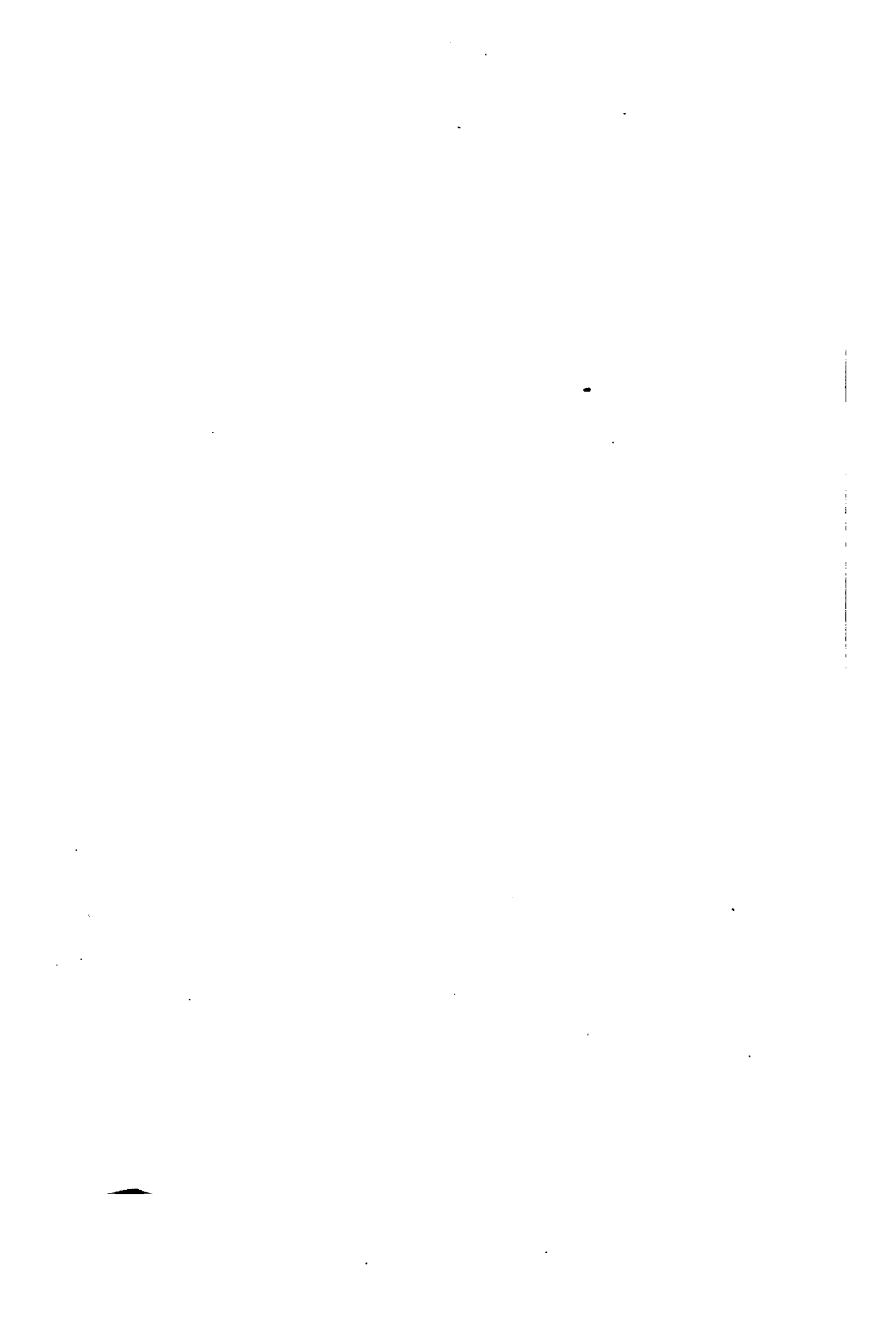
All graduates are hereby earnestly requested to forward their publications to the College Librarian for preservation in the Alumni alcove.

The Annual Catalogue, usually issued in December, will be sent to each Alumnus whose correct address is known.

An Obituary Record is published annually in the Autumn, and will be sent to each Alumnus with the Annual Catalogue in December.

A new General Catalogue, much enlarged, with historic notes and views of buildings, old and new, was issued in December, 1900. This General Catalogue will be sent to any address on the receipt of \$1.00 for paper cover, or for \$1.50 bound in cloth.

In response to numerous requests that the proceedings of the Webster Centennial be published, a volume has been issued by the College describing the exercises in detail and giving the addresses and speeches, together with notes of reminiscences. The price is \$1.50 for cloth, and \$1.00 for paper cover. The orders for either the General Catalogue or the Webster Volume may be sent to Professor C. F. Emerson, Dean, Hanover, N. H.



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